Criterion 1: Curricular Aspects

1.3 Curriculum Enrichment

1.3.4.1: Number of students undertaking field projects / internships / student projects

Programme Name: B.Tech Information Technology.

Sl.No.	Description	Page Number
1	Internships	1-259
2	Field Projects / Student Projects	260-436
3	Minor Projects	437-720
4	Industrial Visit	721-741

Criterion 1: Curricular Aspects

1.3 Curriculum Enrichment

1.3.4.1: Number of students undertaking field projects / internships / student projects

Programme Name: B.Tech. - Information Technology

Internships

ingage

Jan 18, 2023

Dear Mr. Abinesh R,

Thank you for joining us on our journey of excellence in the Immersive Training – we value your skills and look forward to your contribution to our mutual success.

We are pleased to offer you as **"Junior Developer"**. Below are some terms and conditions you will need to be familiar with as an employee of INGAGE TECHNOLOGIES PVT LTD.

1. You will be on probation for a period of three months from the date of joining work, on the expiry of which your probation may be extended, or your employment will be confirmed at the discretion of the management, by a written order. In the absence of a written order confirming your services, you will continue to be on probation.

2. During the period of probation, your services are liable to be terminated without any notice.

3. Your Cost-To-Company (CTC) will be **Rs. 3,30,000/-**(Rupees Three Lakhs Thirty Thousand only), as per the breakup provided in offer letter. Please keep the details of the contract between you and the company strictly confidential, and do not divulge or discuss the same with any other person except with your reporting heads or the HR Department. Discussion of salary or terms of employment without discretion may be cause for disciplinary action.

4. All statutory deductions such as PF, ESI, Professional Tax, etc. will be deducted from your salary.

5. The Company is obligated to compute Income Tax on salary and any other payments made and deduct tax at source. Please note that the responsibility to make appropriate investments for any tax exemptions under IT rules, declare them, and submit proof for the same to HR within the stipulated timeframe, rests with you. Also, please note that all incentive payments and bonus declared will also be added for tax calculations.

6. You will be governed by the terms of appointment and other rules and regulations of the company that are in force from time to time in relation to conduct, discipline, leave, holidays or any matter relating to service conditions. These are set out in the Policy manual available with HR.

7. You will not engage yourself directly or indirectly with any other person, firm or company in any capacity during your employment with us, unless with express and written approval from the management. You are expected to declare to the company any conflict of interest; this could include close relatives working in the company or with competitor firms, or any other interests.

8. Your services are liable to be transferred at any time to any other branch or department / section forming part of the company or to any of our group or subsidiary companies as may from time to time be found necessary. By refusing to accept such a transfer, you are liable to be ineligible for continued employment in the present role.

9. You will diligently and faithfully carry out your work and improve the business and interest of the company. You will not indulge in any activities which are detrimental to the interests of the company.

10. Your absence for a continuous period of 8 days without proper approval or sanction of leave or overstay for a period of more than 8 days would make you to lose your lien on employment and your services will automatically come to an end without any notice or intimation to you from

ATTESTED
PRINCIPAL,
Kumaraswamy College of Engineering
Thalavapalayam Karur-639113

ingage

Jan 18, 2023

Dear Mr. Suryaa A V,

Thank you for joining us on our journey of excellence in the Immersive Training – we value your skills and look forward to your contribution to our mutual success.

We are pleased to offer you as **"Junior Developer"**. Below are some terms and conditions you will need to be familiar with as an employee of INGAGE TECHNOLOGIES PVT LTD.

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Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

ingage

Jan 18, 2023

Dear Mr Rajkumar A,

Thank you for joining us on our journey of excellence in the Immersive Training – we value your skills and look forward to your contribution to our mutual success.

We are pleased to offer you as **"Junior Developer"**. Below are some terms and conditions you will need to be familiar with as an employee of INGAGE TECHNOLOGIES PVT LTD.

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PRINCIPAL,
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

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Jan 18, 2023

Dear Mr. Balavigneshwar E,

Thank you for joining us on our journey of excellence in the Immersive Training – we value your skills and look forward to your contribution to our mutual success.

We are pleased to offer you as **"Junior Developer"**. Below are some terms and conditions you will need to be familiar with as an employee of INGAGE TECHNOLOGIES PVT LTD.

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Thalavapalayam, Karur-639113

Ingage Technologies Private Ltd.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.myingage.com
Phone: +91-98408 34132
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Suryaa Vijaykumar,

Reg No: 19BIT4111

No: 197, Arunachal Nagar 1st cross

Pasupathipalayam, Karur - 639004.

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Suryaa,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
2. Internship Period will be from 28.10.2022 to 28.11.2022.
3. Your timings will be from 10.00 AM to 7.00 PM, Monday to Friday.
4. During the Internship Period you will be reporting to Ingage's Head Office or will be deployed in client's location at the discretion of the company.
5. Travel & Accommodation expenses will be taken care of by the company for Interns deployed at client locations.
6. You will be paid a monthly stipend of ₹ 20,000 during the Internship period.
7. Internship period may be extended by mutual interest in writing.

for, Ingage Technologies Private Limited

Authorised Signatory

ATTESTED
PRINCIPAL,
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Ingage Technologies Private Ltd.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.myingage.com
Phone +91-98408 34132
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Rajkumar Ashokan,

Reg No: 19BIT4078,

No: 5/94 B, Neikaranapatty,

Ariyur (POST), Namakkal – 637015.

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Rajkumar,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
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7. Internship period may be extended by mutual interest in writing.

for, Ingage Technologies Private Limited

Authorised Signatory

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www.myingage.com
Phone: +91-98408 34132
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Abinesh R,

Reg No: 19BIT4001,

No: 7/74, Seethakattupatti, Hiraniyamangalam(p/o),

kulithalai(t/k), Karur-639007

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Abinesh,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
2. Internship Period will be from 28.10.2022 to 28.11.2022.
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for, Ingage Technologies Private Limited

Authorised Signatory

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www.myingage.com
Phone: +91-98408 34132
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Balavigneshwar Eswaran,

Reg No: 19BIT4006,

No: 5, Bhavani Nagar,

Karur - 639004.

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Balavigneshwar,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
2. Internship Period will be from 28.10.2022 to 28.11.2022.
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for, Ingage Technologies Private Limited

Authorised Signatory

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Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

NAME: MOHAN KUMAR S

ROLL NO: 19BIT4056

DOMAIN: JAVA, REACT

I am delighted to have joined on 14 FEB 2023 and completed my Full Stack Developer Internship program offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills in both Java and React technologies.

During the program, I had access to the Examly platform, where I was able to access learning materials and hands-on practice labs. The program had a variety of modules, each one designed to develop my understanding and practical experience with the following technologies and skills:

- Java: One of the most widely used programming languages, Java is the foundation of many applications and systems. During the program, I learned the basics of Java programming and how to use Java for web development.
- React: A popular JavaScript library used for building user interfaces, react is used in many web applications. The internship helped me to develop my React skills and build interactive web applications.
- Maven: An open-source tool used for project management and build automation; Maven is used to manage Java-based projects. I learned how to use Maven to manage dependencies, build and test Java applications.
- Unit testing: The internship program included an emphasis on testing, with a focus on unit testing. I learned how to write and execute unit tests to ensure that the applications I developed were working as expected.
- UML: Unified Modelling Language (UML) is a visual language used to represent software designs. During the program, I learned how to create UML diagrams to model and design software systems.
- HTML and CSS: These two languages are the foundation of web development. I learned how to use HTML to structure web pages and CSS to style them.
- JavaScript: Another popular programming language, JavaScript is used to create interactive web applications. During the program, I learned how to use JavaScript to build dynamic web pages.

Overall, the Virtusa Full Stack Developer Internship program was an excellent learning experience. It provided me with a solid foundation in the technologies and skills needed to build web applications. I am grateful for the opportunity to have participated in this program and look forward to applying the skills I have acquired in my future career as a Full Stack Developer.

Signature of Student

Signature of Guide

Signature of HOD

ATTESTED

PRINCIPAL,
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

NAME: LOGESHWARAN M

ROLL NO: 19BIT4052

DOMAIN: JAVA, REACT

I am delighted to have joined on 14 FEB 2023 and completed my Full Stack Developer Internship program offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills in both Java and React technologies.

During the program, I had access to the Examly platform, where I was able to access learning materials and hands-on practice labs. The program had a variety of modules, each one designed to develop my understanding and practical experience with the following technologies and skills:

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- Maven: An open-source tool used for project management and build automation; Maven is used to manage Java-based projects. I learned how to use Maven to manage dependencies, build and test Java applications.
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Signature of Student

Signature of Guide

Signature of HOD

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering

Thalavapalayam Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

NAME: GOWTHAM B

ROLL NO: 19BIT4029

DOMAIN: JAVA, REACT

I am delighted to have joined on 14 FEB 2023 and completed my Full Stack Developer Internship program offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills in both Java and React technologies.

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Signature of Student **Signature of Guide** **Signature of HOD**

ATTESTED

PRINCIPAL,
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

program FY 23 - Java B6 Inbox

sujatha n 4 days ago

to nandhukarnaa@gmail.c...

Hi Students!!

Welcome you all to our flagship internship program that has been meticulously curated by SME's from Virtusa to get you prepared with industry experience.

The program offers a unique opportunity of getting into an internship with Virtusa , and learn and build a real time business application in Full Stack Tech (Java). The program will have 2 phases , learning phase and upon successful completion internship phase in which you will work on live business case where Virtusa team will provide required guidance in the areas of Solutioning, Design and Development-for the participants to successfully complete the internship in style.

You will receive mailer from examly platform (iamneo) before tomorrow on you access to the learning portal,

been newly enrolled in the following course.

C

candidate@iamneo.ai 3 days ago

to me

From candidate@iamneo.ai

To jananipriya3052@gmail.com

Date 14 Feb 2023, 11:47 am

Standard encryption (TLS).

See security details

ATTESTED

PRINCIPAL,
Kumarasamy College of Engineering
Thalavapalayam Karur-639113

Dear User,

Greetings from Virtusa!

You have been newly enrolled in the following course.

Course Name:JAVA_React_2023

Please follow the below steps to start the course

Step 1: Visit https://virtusacoetraining.examly.io/login?course=true&type=Course

candidate@iamneo.ai 3 days ago

to me

From candidate@iamneo.ai

To nandhinichandhiran@gmail.com

Date 14 Feb 2023, 10:43 am

Standard encryption (TLS).

See security details

ATTESTED

PRINCIPAL,

Kumarasamy College of Engineering

Dear User,

Greetings from Virtusa!

You have been newly enrolled in the following course.

Course Name:Soft Skills - Virtusa - Internship

Please follow the below steps to start the course

Step 1: Visit https://virtusacoetraining.examly.io/login?course=true

Step 2: Log in with username (email id which was used to activate account) and *password

Step 3: Click on Menu icon on the left top corner and click on "Courses"

sujatha n 4 days ago

to nandhukarnaa@gmail.com, me, s...

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You will receive mailer from examly platform (iamneo) before tomorrow on you access to the learning portal, please check your mails and enable the access.

Phase 1 - All assessment , case study , lab exercises, project expected to be completed before 28th feb 2023.

Happy Learning!

C&L – Virtusa

ATTESTED

PRINCIPAL,
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

course Inbox

candidate@iamneo.ai Feb 14

Dear User, Greetings from Virtusa! You have been newly enrolled in the following

candidate@iamn... 3 days ago

to me

From candidate@iamneo.ai

To swathidharshini01@gmail.com

Date Feb 14, 2023, 11:47 AM

Standard encryption (TLS).
View security details

ATTESTED
PRINCIPAL,
Kumarasamy College of Engineering

Dear User,

Greetings from Virtusa!

You have been newly enrolled in the following course.

Course Name:JAVA_React_2023

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

NAME: DHARANI L

ROLL NO: 19BIT4014

DOMAIN: JAVA, REACT

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- HTML and CSS: These two languages are the foundation of web development. I learned how to use HTML to structure web pages and CSS to style them.
- JavaScript: Another popular programming language, JavaScript is used to create interactive web applications. During the program, I learned how to use JavaScript to build dynamic web pages.

Overall, the Virtusa Full Stack Developer Internship program was an excellent learning experience. It provided me with a solid foundation in the technologies and skills needed to build web applications. I am grateful for the opportunity to have participated in this program and look forward to applying the skills I have acquired in my future career as a Full Stack Developer.

Signature of Student

Signature of Guide

Signature of HOD

ATTESTED

PRINCIPAL,
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam, Karur

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

NAME: JANANIPRIYA P V

ROLL NO: 19BIT4040

DOMAIN: JAVA, REACT

I am delighted to have joined on 14 FEB 2023 and completed my Full Stack Developer Internship program offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills in both Java and React technologies.

During the program, I had access to the Examly platform, where I was able to access learning materials and hands-on practice labs. The program had a variety of modules, each one designed to develop my understanding and practical experience with the following technologies and skills:

- Java: One of the most widely used programming languages, Java is the foundation of many applications and systems. During the program, I learned the basics of Java programming and how to use Java for web development.
- React: A popular JavaScript library used for building user interfaces, react is used in many web applications. The internship helped me to develop my React skills and build interactive web applications.
- Maven: An open-source tool used for project management and build automation; Maven is used to manage Java-based projects. I learned how to use Maven to manage dependencies, build and test Java applications.
- Unit testing: The internship program included an emphasis on testing, with a focus on unit testing. I learned how to write and execute unit tests to ensure that the applications I developed were working as expected.
- UML: Unified Modelling Language (UML) is a visual language used to represent software designs. During the program, I learned how to create UML diagrams to model and design software systems.
- HTML and CSS: These two languages are the foundation of web development. I learned how to use HTML to structure web pages and CSS to style them.
- JavaScript: Another popular programming language, JavaScript is used to create interactive web applications. During the program, I learned how to use JavaScript to build dynamic web pages.

Overall, the Virtusa Full Stack Developer Internship program was an excellent learning experience. It provided me with a solid foundation in the technologies and skills needed to build web applications. I am grateful for the opportunity to have participated in this program and look forward to applying the skills I have acquired in my future career as a Full Stack Developer.

Signature of Student

Signature of Guide

Signature of HOD

ATTESTED

PRINCIPAL,
K.S. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
K.S. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

AME: NANDHINI C

OLL NO: 19BIT4062

OMAIN: JAVA, REACT

I am delighted to have joined on 14 FEB 2023 and completed my Full Stack Developer Internship program offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills in both Java and React technologies.

During the program, I had access to the Examly platform, where I was able to access learning materials and hands-on practice labs. The program had a variety of modules, each one designed to develop my understanding and practical experience with the following technologies and skills:

- Java: One of the most widely used programming languages, Java is the foundation of many applications and systems. During the program, I learned the basics of Java programming and how to use Java for web development.
- React: A popular JavaScript library used for building user interfaces, react is used in many web applications. The internship helped me to develop my React skills and build interactive web applications.
- Maven: An open-source tool used for project management and build automation; Maven is used to manage Java-based projects. I learned how to use Maven to manage dependencies, build and test Java applications.
- Unit testing: The internship program included an emphasis on testing, with a focus on unit testing. I learned how to write and execute unit tests to ensure that the applications I developed were working as expected.
- UML: Unified Modelling Language (UML) is a visual language used to represent software designs. During the program, I learned how to create UML diagrams to model and design software systems.
- HTML and CSS: These two languages are the foundation of web development. I learned how to use HTML to structure web pages and CSS to style them.
- JavaScript: Another popular programming language, JavaScript is used to create interactive web applications. During the program, I learned how to use JavaScript to build dynamic web pages.

Overall, the Virtusa Full Stack Developer Internship program was an excellent learning experience. It provided me with a solid foundation in the technologies and skills needed to build web applications. I am grateful for the opportunity to have participated in this program and look forward to applying the skills I have acquired in my future career as a Full Stack Developer.

Signature of Student **Signature of Guide** **Signature of HOD**

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering

Thalavapalayam, Karur-639113

Head of the Department

Department of Information Technology

M. Kumarasamy College of Engineering

(Autonomous)

Thalavapalayam - Karur

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

AME: SWATHI S

OLL NO: 19BIT4113

OMAIN: JAVA, REACT

I am delighted to have joined on 14 FEB 2023 and completed my Full Stack Developer Internship program offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills in both Java and React technologies.

During the program, I had access to the Examly platform, where I was able to access learning materials and hands-on practice labs. The program had a variety of modules, each one designed to develop my understanding and practical experience with the following technologies and skills:

- Java: One of the most widely used programming languages, Java is the foundation of many applications and systems. During the program, I learned the basics of Java programming and how to use Java for web development.
- React: A popular JavaScript library used for building user interfaces, react is used in many web applications. The internship helped me to develop my React skills and build interactive web applications.
- Maven: An open-source tool used for project management and build automation; Maven is used to manage Java-based projects. I learned how to use Maven to manage dependencies, build and test Java applications.
- Unit testing: The internship program included an emphasis on testing, with a focus on unit testing. I learned how to write and execute unit tests to ensure that the applications I developed were working as expected.
- UML: Unified Modelling Language (UML) is a visual language used to represent software designs. During the program, I learned how to create UML diagrams to model and design software systems.
- HTML and CSS: These two languages are the foundation of web development. I learned how to use HTML to structure web pages and CSS to style them.
- JavaScript: Another popular programming language, JavaScript is used to create interactive web applications. During the program, I learned how to use JavaScript to build dynamic web pages.

Overall, the Virtusa Full Stack Developer Internship program was an excellent learning experience. It provided me with a solid foundation in the technologies and skills needed to build web applications. I am grateful for the opportunity to have participated in this program and look forward to applying the skills I have acquired in my future career as a Full Stack Developer.

Signature of Student

Signature of Guide

Signature of HOD

ATTESTED

PRINCIPAL,
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

INTERNSHIP REPORT

INTERNSHIP AT JP Morgan Chase & Co

NAME : Dineshkumar C

ROLL NO : 19BIT4020

DOMAIN : Cybersecurity

I am writing this report to summarize my experience during the Cybersecurity Virtual Experience Program at JP Morgan Chase & Co. The program was designed to give participants a comprehensive understanding of cybersecurity in the financial sector, with a focus on identifying and mitigating cyber threats. The program was held from 11th March 2023 to 27th March 2023 and lasted for 15 days.

The program was divided into various modules, each covering different aspects of cybersecurity. The modules included Introduction to Cybersecurity, Cybersecurity Threats, Risk Management, Security Operations, Security Architecture, and Cybersecurity Regulations. Each module consisted of video lectures, interactive quizzes, and practical exercises to reinforce the concepts taught.

Skills Acquired:

Threat Analysis

Risk Management

Security Operations

Security Architecture

The program was well-structured, and the modules were informative and engaging. I am confident that the skills and knowledge I have acquired during this program will be valuable in my future career endeavors. I would like to express my gratitude to JP Morgan Chase & Co. for providing me with this opportunity to learn and grow in the field of cybersecurity.

Signature of Guide

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering

Thalavapalayam, Karur-639113

Signature of HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

Gmail

NACHIAPPAN PL <pl.nachiappan12345@gmail.com>

NITE | 8th Semester Pre Onboarding Internship Program | Offer Letter

essages

npus Onboarding <Campus.Onboarding@ltimindtree.com> Tue, Feb 28, 2023 at 1:18 PM
"pl.nachiappan12345@gmail.com" <pl.nachiappan12345@gmail.com>

Dear Nachiappan PL,

We are pleased to offer you an internship opportunity ("**Internship**") at LTIMindtree Limited ("**LTIMindtree**"). The terms and conditions of this offer are as follows and your Internship will be subject to and governed by these terms and conditions which shall be binding upon you receiving this email.

1. **Internship Duration**	:	**9 to 12 weeks**
2. **Commencement Date**	:	**21 Feb 2023**
3. **Location**	:	**Remote**
4. **Stipend**	:	**Milestone based - Refer 12.**

Additional Terms:

1. You acknowledge that the purpose of this Internship is to provide you with the opportunity to learn generally about information technology work and to gain practical experience and insights into the workplace and industry, and LTIMindtree does not derive an immediate advantage from the activities performed by you during the Internship Duration. It is essential for you to actively participate in this internship by completing the learnings successfully in the stipulated time period
2. The Stipend stipulated above is payable on completion of the milestones as set out in Clause 12 and on you joining LTIMindtree as a full-time employee. The amount of stipend that you will be entitled to will be determined as per the criteria set out in Clause 12. Please note that the said amount will be a one-time payment and will not form part of your cost to the company as a full-time employee. The said amount will be payable to you subject to applicable statutory and other deductions, and applicable tax withholdings. Any costs and expenses borne by you in connection with the Internship shall be your sole responsibility.
3. You may be permitted to be absent during the Internship Duration after obtaining prior approval from your Mentor and your stipend may be reduced, at LTIMindtree' s sole discretion and option, by the period of your absence. Prolonged, frequent, or unapproved absences may lead to immediate termination of your Internship upon notice from LTIMindtree.
4. While with us, you will be required to adhere to policies/practices of LTIMindtree as applicable to you in your capacity as an intern and as amended from time to time solely at the discretion of LTIMindtree ("**Policies**"). These policies will be shared with you before your internship commences and during the Internship Duration.
5. **Confidentiality:** As an intern, you will be privy to, have access to or receive Confidential Information (as defined below). You shall (i) use such Confidential Information solely in relation to and to fulfill your Internship; (ii) disclose Confidential Information only to such persons and as permitted in writing by LTIMindtree; (iii) treat the Confidential Information with all reasonable care; and (iv) return all Confidential Information (and all copies thereof) to LTIMindtree immediately upon termination or completion of your Internship. Your obligations to maintain secrecy and confidentiality of the Confidential Information shall continue after the termination of your Internship with LTIMindtree.

*"**Confidential Information**" which means any information, data or non-public business, commercial, personal, or technical information of LTIMindtree, its affiliates, parent company, their personnel, or that of their clients including but not limited to research and development projects, services, and business operations, which may be disclosed in writing, orally, electronically, by or on behalf of LTIMindtree. Any documents and information, which reflect, incorporate, and/or are generated using any such Confidential Information, will also be deemed as Confidential Information. All Confidential Information shall be deemed as LTIMindtree' s trade secrets.*

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PRINCIPAL
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

1:59 PM 16.4KB/s 21%

IGNITE | 8th Semester Pre Onboarding Internship Program | Offer Letter Inbox

Campus Onboarding 28 Feb
to me

Dear Aravinth S,

We are pleased to offer you an internship opportunity ("**Internship**") at LTIMindtree Limited ("**LTIMindtree**"). The terms and conditions of this offer are as follows and your Internship will be subject to and governed by these terms and conditions which shall be binding upon you receiving this email.

1. **Internship Duration**
: **9 to 12 weeks**
2. **Commencement Date**
: **21 Feb 2023**
3. **Location**
: **Remote**
4. **Stipend** :
Milestone based - Refer 12.

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Kumarasamy College of Engineering
Thalavapalayam Karur-639113

Additional Terms:

1. You acknowledge that the purpose of this Internship is to provide you with the opportunity

INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

AME: ARAVINTH S

ROLL NO: 19BIT4003

DOMAIN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This internship program is ongoing and is focused on developing skills in the Java domain, specifically in web application development.

During the program, I have gained hands-on experience in several programming languages and technologies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and secure.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is a popular language for building enterprise applications, and it is essential in developing scalable and secure applications.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of web pages. JavaScript has helped me add interactivity and functionality to web pages, while PHP has been instrumental in server-side scripting.

SQL is a critical language in database management, and I have learned how to use it to store and retrieve data from databases. I have also gained knowledge in cloud computing, which has helped me understand how to build and deploy web applications in cloud environments.

Finally, Python is a versatile language that is used in a wide range of applications, including data analysis and machine learning. I have gained knowledge in this language, which will help me in my future career.

Overall, my experience at LTIMindtree has been invaluable in developing my skills in web application development. I look forward to continuing to learn and grow as a developer in this program and applying the skills I have acquired in my future career.

Signature of Student | 29/3/23. **Signature of Guide** [Dr. S. Geetha] | **Signature of HOD**

ATTESTED
PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

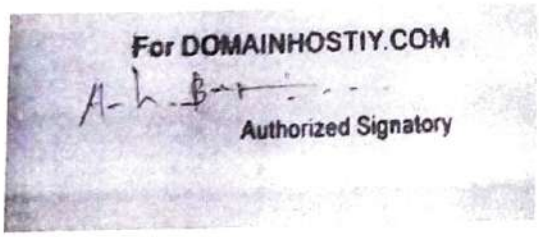
TRAINING TRAINS

DomainHostly.COM

Certificate

Certificate No: 2403202303

This is to certify that **Ms BAVYA S (Reg no: 19BIT4007)** has successfully completed the 15 Days Internship From (28/12/2022 - 12/01/2023) on Cyber Security organised by TRAINING TRAINS, **ERODE -638115.**



Training Trains Software Inc

Contact:+91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com , www.domainhostly.com

INTERNSHIP REPORT

INTERNSHIP AT DOMAIN HOSTLY

NAME: BAVYA S

ROLL NO:19BIT4007

DOMAIN: CYBERSECURITY

I Joined Domain hostly at 28th december 2022. I learned about spring boot and IOCs. Spring Boot is a popular framework for building web applications in the Java programming language. It is built on top of the Spring framework and provides a set of pre-configured components that make it easy to develop production-ready applications quickly. Some of the key features of Spring Boot include:

Auto-configuration: Spring Boot includes a set of pre-configured components that can be easily customized to fit your specific needs. It automatically configures most of the components based on the dependencies you include in your project.

Embedded web server: Spring Boot includes an embedded web server, which makes it easy to deploy and run web applications without having to configure an external web server.

Actuator: Spring Boot provides an actuator that exposes metrics and monitoring information about your application, making it easier to monitor and manage your application in production.

Easy testing: Spring Boot provides a set of utilities for testing your application, including support for unit testing and integration testing.

I learn some of the common tools and techniques used to identify and analyze IOCs, such as intrusion detection systems (IDS), Security Information and Event Management (SIEM) systems, and endpoint detection and response (EDR) solutions. These tools use a combination of signature-based and behavior-based analysis to identify potential IOCs and alert security analysts to potential security threats.

I learned that IOCs are an important component of threat intelligence, and that sharing IOCs with other organizations can help to prevent cyber attacks. Organizations can share IOCs through various channels, such as threat intelligence platforms, email lists, and social media groups.

Finally my internship ends at 12th January 2023.

N. Varshini

Signature of Guide

Signature of HOD

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering

Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

NCR Corporation India Pvt Ltd.,
1/1A, Mahindra World City,
Veerapuram Village,
Chengalpattu (District),
Tamil Nadu - 603 004, India.
Tel: +91 - 44 6618 9999
Fax: +91 - 44 6618 9797
www.ncr.com

REF: NCR/HRD/CAMPUS/MKCE/GAT-RECRUIT/02-001/2023
27th February 2023

Dear Bharathi kannan,

Sub: Offer Letter for Selection of Associate Trainee

This has reference to your application dt. 27th February 2023 and subsequent interview had with you on Monday the 27th February 2023 at M. Kumarasamy College of Engineering, Thalavapalayam, Karur – 621112, Tamil Nadu.

Based on your interview performance, you are provisionally selected as an **Associate Trainee** on a consolidated stipend of Rs.15,000/- (Rs.12,800/- Fixed Stipend, Rs.700/- HRA & Variable Allowance of Rs.1500/-) for a period of one year from the date of your joining.

After successful completion of your training, you will be considered for further period of extension of your training as and when vacancy arises based on your acquaintance during the training period.

You are hereby advised to report your duty on or before 06th March 2023 at our ATM Manufacturing Facility (Ref the address in our letter head) and bring the following ***Original Certificates for verification along with photocopy***:

I. SSLC Mark Sheet
II. HSC Mark Sheet
III. Degree / Diploma Certificate/all semester marksheets (till 6th Semester)
IV. Aadhaar Card
V. PAN Card
VI. Transfer Certificate
VII. Bank Passbook (Individual Account)
VIII. 6Nos. of passport size and two stamp size photos.
IX. Project Report if any

With Best Wishes
For NCR Corporation India Pvt Ltd.,

ATTESTED
PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

R.K. Saravanan
Head – Employee/Labor Relations & HRBP

INTERNSHIP AT NCR CORPORATION INDIA PVT LTD

NAME : BHARATHI KANNAN M

ROLL NO : 19BIT4008

DOMAIN : HARDWARE

I joined NCR at 13th march 2023. They organized a inauguration program and explained about the do's and don't's of company. Documents were verified and some fun games were happened after lunch then received goodies for us.

Then for 3 days, we have training at NCR company. We have learned some mandatory about history about companies. Software testing and we done behavioural and cognarative mandatory new project implementation on Automated Teller Machines, etc.

In between our training we have some interactive behavioural sessions.

NCR training were started at 13th march 2023 with a brief introduction about the projects and work behind it. There were many division lines in NCR but we studied about products of ATM.

In CONTROLLER we add implementation and give durations to watch how the system is getting performed based on work of new implementations when it is in a peak or a normal period.

In ANALYSIS the final report is generated and the think time etc are generated according to the load.

After the training feedback review were conducted and the project was assigned individually in ATM assemble and software testing. The team allocated supervisor to check the flow of work in MIDAS software and set the users to accomplish the work. Then I present my project to my supervisor and lead and got rewards of my work.

Signature of Guide

Signature of HoD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

ATTESTED
PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur - 639113

TRAINING TRAINS

DomainHostly.COM

Certificate

Certificate No: 2403202306

This is to certify that **Ms DHANALAKSHMI S (Reg no: 19BIT4013)** has successfully completed the 15 Days Internship From (28/12/2022 - 12/01/2023) on Cyber Security organised by TRAINING TRAINS, **ERODE -638115.**

For DOMAINHOSTIY.COM

Authorized Signatory

ATTESTED

PRINCIPAL

Kumarasamy College of Engineering

Training Trains Software Inc

Contact:+91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com , www.domainhostly.com

UNISTAM
WE FULFILL YOUR DREAMS

Corporate Office – INDIA
6/716-a Paramathi Road
Namakkal-1, Tamil Nadu, India
Contact No: (+91) 04286 299383
Web: www.unistam.in | Email: info@unistam.co.in

Date: 25/01/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that (Mr/Ms) Bharathkumar V (Reg No:19BIT4009) student of B.Tech (Major in Information Technology) from M.Kumarasamy College of Engineering, Karur has completed his/her internship in our company during the period from 27/12/2022 to 12/01/2023 as a Web Development.During the period of his/her internship program with us,he/she had been exposed to different processes and was found diligent,hardworking, and inquisitive.

UNISTAM
WE FULFILL YOUR DREAMS

BetaHost

Mesage

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PRINCIPAL,
M.Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Best Wishes
For Unistam Group
Srikanth Reddy
Human Resources Team

Shiash
Focus on Deliverables

27th March 2023

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that **Mr. R. S. DHINAKARAN (REG NO:19BIT4016)** student of **B.Tech,(Information Technology) M. Kumarasamy College of Engineering -Karur**, has successfully completed the Internship in **Cybersecurity** domain **from 1st March 2023 to 25th March 2023** in our company, during the period, he had been exposed to different process and found to be punctual, Hard Working and Inquisitive we wish him every success in life and career

For **Shiash Info Solutions Private Limited**

Ashwini Kanniyappan
Manager – Human Resources
Shiash Info Solutions Private Limited
#51, Level 4, Tower A, Rattha TEK Meadows, Old Mahabalipuram Road,
Sholinganallur, Chennai – 600 119, Tamil Nadu, India
+91 44 66255681 info@shiash.com

TRAINING TRAINS

DomainHostly.COM

Certificate

Certificate No: 240320384

This is to certify that **Mr DEEPAK S(Reg no: 19BIT4011)** has successfully completed the 15 Days Internship From (28/12/2022 - 12/01/2023) on Cyber Security organised by TRAINING TRAINS, **ERODE -638115.**

For DOMAINHOSTIY.COM

Authorized Signatory

ATTESTED

PRINCIPAL,

Kumaraswamy College of Engineering

Training Trains Software Inc

Contact: +91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com, www.domainhostly.com

ingage

Jan 18, 2023

Dear Ms. Rashika V,

Thank you for joining us on our journey of excellence in the Immersive Training – we value your skills and look forward to your contribution to our mutual success.

We are pleased to offer you as **"Junior Developer"**. Below are some terms and conditions you will need to be familiar with as an employee of INGAGE TECHNOLOGIES PVT LTD.

1. You will be on probation for a period of three months from the date of joining work, on the expiry of which your probation may be extended, or your employment will be confirmed at the discretion of the management, by a written order. In the absence of a written order confirming your services, you will continue to be on probation.

2. During the period of probation, your services are liable to be terminated without any notice.

3. Your Cost-To-Company (CTC) will be **Rs. 3,30,000/-**(Rupees Three Lakhs Thirty Thousand only), as per the breakup provided in offer letter. Please keep the details of the contract between you and the company strictly confidential, and do not divulge or discuss the same with any other person except with your reporting heads or the HR Department. Discussion of salary or terms of employment without discretion may be cause for disciplinary action.

4. All statutory deductions such as PF, ESI, Professional Tax, etc. will be deducted from your salary.

5. The Company is obligated to compute Income Tax on salary and any other payments made and deduct tax at source. Please note that the responsibility to make appropriate investments for any tax exemptions under IT rules, declare them, and submit proof for the same to HR within the stipulated timeframe, rests with you. Also, please note that all incentive payments and bonus declared will also be added for tax calculations.

6. You will be governed by the terms of appointment and other rules and regulations of the company that are in force from time to time in relation to conduct, discipline, leave, holidays or any matter relating to service conditions. These are set out in the Policy manual available with HR.

7. You will not engage yourself directly or indirectly with any other person, firm or company in any capacity during your employment with us, unless with express and written approval from the management. You are expected to declare to the company any conflict of interest; this could include close relatives working in the company or with competitor firms, or any other interests.

8. Your services are liable to be transferred at any time to any other branch or department / section forming part of the company or to any of our group or subsidiary companies as may from time to time be found necessary. By refusing to accept such a transfer, you are liable to be ineligible for continued employment in the present role.

9. You will diligently and faithfully carry out your work and improve the business and interest of the company. You will not indulge in any activities which are detrimental to the interests of the company.

10. Your absence for a continuous period of 8 days without proper approval or sanction of leave or overstay for a period of more than 8 days would make you to lose your lien on employment and your services will automatically come to an end without any notice or intimation to you from

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PRINCIPAL
Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

Jan 18, 2023

Dear Ms. Sonali S.

Thank you for joining us on our journey of excellence in the Immersive Training – we value your skills and look forward to your contribution to our mutual success.

We are pleased to offer you as **"Junior Developer"**. Below are some terms and conditions you will need to be familiar with as an employee of INGAGE TECHNOLOGIES PVT LTD.

1. You will be on probation for a period of three months from the date of joining work, on the expiry of which your probation may be extended, or your employment will be confirmed at the discretion of the management, by a written order. In the absence of a written order confirming your services, you will continue to be on probation.

2. During the period of probation, your services are liable to be terminated without any notice.

3. Your Cost-To-Company (CTC) will be **Rs. 3,30,000/-**(Rupees Three Lakhs Thirty Thousand only), as per the breakup provided in offer letter. Please keep the details of the contract between you and the company strictly confidential, and do not divulge or discuss the same with any other person except with your reporting heads or the HR Department. Discussion of salary or terms of employment without discretion may be cause for disciplinary action.

4. All statutory deductions such as PF, ESI, Professional Tax, etc. will be deducted from your salary.

5. The Company is obligated to compute Income Tax on salary and any other payments made and deduct tax at source. Please note that the responsibility to make appropriate investments for any tax exemptions under IT rules, declare them, and submit proof for the same to HR within the stipulated timeframe, rests with you. Also, please note that all incentive payments and bonus declared will also be added for tax calculations.

6. You will be governed by the terms of appointment and other rules and regulations of the company that are in force from time to time in relation to conduct, discipline, leave, holidays or any matter relating to service conditions. These are set out in the Policy manual available with HR.

7. You will not engage yourself directly or indirectly with any other person, firm or company in any capacity during your employment with us, unless with express and written approval from the management. You are expected to declare to the company any conflict of interest; this could include close relatives working in the company or with competitor firms, or any other interests.

8. Your services are liable to be transferred at any time to any other branch or department / section forming part of the company or to any of our group or subsidiary companies as may from time to time be found necessary. By refusing to accept such a transfer, you are liable to be ineligible for continued employment in the present role.

9. You will diligently and faithfully carry out your work and improve the business and interest of the company. You will not indulge in any activities which are detrimental to the interests of the company.

10. Your absence for a continuous period of 8 days without proper approval or sanction of leave or overstay for a period of more than 8 days would make you to lose your lien on employment and your services will automatically come to an end without any notice or intimation to you from

ATTESTED
PRINCIPAL
Sumarasamy College of Engineering

InGage Technologies Pvt Ltd
Registered Office: 9, Taramani Link Road, Velachery, Chennai 600042

ingage

Jan 18, 2023

Dear Ms. Sri Dharshini K R,

Thank you for joining us on our journey of excellence in the Immersive Training – we value your skills and look forward to your contribution to our mutual success.

We are pleased to offer you as **"Junior Developer"**. Below are some terms and conditions you will need to be familiar with as an employee of INGAGE TECHNOLOGIES PVT LTD.

1. You will be on probation for a period of three months from the date of joining work, on the expiry of which your probation may be extended, or your employment will be confirmed at the discretion of the management, by a written order. In the absence of a written order confirming your services, you will continue to be on probation.

2. During the period of probation, your services are liable to be terminated without any notice.

3. Your Cost-To-Company (CTC) will be **Rs. 3,30,000/-**(Rupees Three Lakhs Thirty Thousand only), as per the breakup provided in offer letter. Please keep the details of the contract between you and the company strictly confidential, and do not divulge or discuss the same with any other person except with your reporting heads or the HR Department. Discussion of salary or terms of employment without discretion may be cause for disciplinary action.

4. All statutory deductions such as PF, ESI, Professional Tax, etc. will be deducted from your salary.

5. The Company is obligated to compute Income Tax on salary and any other payments made and deduct tax at source. Please note that the responsibility to make appropriate investments for any tax exemptions under IT rules, declare them, and submit proof for the same to HR within the stipulated timeframe, rests with you. Also, please note that all incentive payments and bonus declared will also be added for tax calculations.

6. You will be governed by the terms of appointment and other rules and regulations of the company that are in force from time to time in relation to conduct, discipline, leave, holidays or any matter relating to service conditions. These are set out in the Policy manual available with HR.

7. You will not engage yourself directly or indirectly with any other person, firm or company in any capacity during your employment with us, unless with express and written approval from the management. You are expected to declare to the company any conflict of interest; this could include close relatives working in the company or with competitor firms, or any other interests.

8. Your services are liable to be transferred at any time to any other branch or department / section forming part of the company or to any of our group or subsidiary companies as may from time to time be found necessary. By refusing to accept such a transfer, you are liable to be ineligible for continued employment in the present role.

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PRINCIPAL
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

TRAINING TRAINS

TrainHostly.COM

Certificate

Certificate No: 2403202306

This is to certify that **Ms SORNALAKSHMI V (Reg no: 19BIT4095)**has successfully completed the 15 Days Internship From(28/12/2022-12/01/2023) on Cyber Security organised by TRAININGTRAINS,**ERODE -638115.**

ATTESTED

PRINCIPAL

Kumaraswamy College of Engineering

Gmail

Rashika Vasudevan <rashikavasudevan091@gmail.com>

Fwd: Internship for MKCE students

1 message

BALAVIGNESHWAR Eswaran <balavigneshwar2001@gmail.com> 30 January 2023 at 12:29
To: Rashika Vasudevan <rashikavasudevan091@gmail.com>, tembler2001@gmail.com, 19BIT4111 SURYAA AV <suryaavk8@gmail.com>, 19BIT4094- Sonali S <vasanthisonali@gmail.com>, 19BIT4078 Rajkumar A <akrajkumarbtech@gmail.com>, abineshramaraj@gmail.com

---------- Forwarded message ----------
From: **HOD IT MKCE** <hodit@mkce.ac.in>
Date: Mon, Jan 30, 2023, 12:25 PM
Subject: Fwd: Internship for MKCE students
To: balavigneshwar2001@gmail.com <balavigneshwar2001@gmail.com>

---------- Forwarded message ----------
From: **Sri Harsha Kappagantula** <sriharsha@myingage.com>
Date: Sun, 29 Jan 2023, 7:42 pm
Subject: Internship for MKCE students
To: hodit@mkce.ac.in <hodit@mkce.ac.in>
Cc: Vijay Karunakaran <vijay@myingage.com>

Dear Ma'am,

We would like to inform you that our internship will be commencing from 30-01-2023 to 14-04-2023.
They will be permitted to take leave on those days or as needed during their exams.
They will be paid a stipend of Rs. 20,000/- for the internship.

The first week of the internship would be online and starts tomorrow. The offline internship would commence after the first week.

The students we have chosen are - Surya, Sonali, Balavigneshwar, Rajkumar, Rashika, Sridharshini, and Abinesh.

Thanks & Regards,
Sriharsha
AVP-Solutions
InGage Technologies
myingage.com
+91 9941656492

ATTESTED
PRINCIPAL,
Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

Gmail Rashika Vasudevan <rashikavasudevan091@gmail.com>

Fwd: Internship for MKCE students

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To: Rashika Vasudevan <rashikavasudevan091@gmail.com>, tembler2001@gmail.com, 19BIT4111 SURYAA AV <suryaavk8@gmail.com>, 19BIT4094- Sonali S <vasanthisonali@gmail.com>, 19BIT4078 Rajkumar A <akrajkumarbtech@gmail.com>, abineshramaraj@gmail.com

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The students we have chosen are - Surya, Sonali, Balavigneshwar, Rajkumar, Rashika, Sridharshini, and Abinesh.

Thanks & Regards,
Sriharsha
AVP-Solutions
InGage Technologies
myingage.com
+91 9941656492

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PRINCIPAL
M. Kumarasamy College of Engineering

ingage

Ingage Technologies Private Ltd.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.myingage.com
Phone: +91-98408 34132
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Abinesh R,

Reg No: 19BIT4001,

No: 7/74, Seethakattupatti, Hiraniyamangalam(p/o),

kulithalai(t/k), Karur-639007

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Abinesh,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
2. Internship Period will be from 28.10.2022 to 28.11.2022.
3. Your timings will be from 10.00 AM to 7.00 PM, Monday to Friday.
4. During the Internship Period you will be reporting to Ingage's Head Office or will be deployed in client's location at the discretion of the company.
5. Travel & Accommodation expenses will be taken care of by the company for Interns deployed at client locations.
6. You will be paid a monthly stipend of ₹ 20,000 during the Internship period.
7. Internship period may be extended by mutual interest in writing.

for, Ingage Technologies Private Limited

ATTESTED
PRINCIPAL,
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Authorised Signatory

ingage

Jan 18, 2023

Dear Mr. Abinesh R,

Thank you for joining us on our journey of excellence in the Immersive Training – we value your skills and look forward to your contribution to our mutual success.

We are pleased to offer you as **"Junior Developer"**. Below are some terms and conditions you will need to be familiar with as an employee of INGAGE TECHNOLOGIES PVT LTD.

1. You will be on probation for a period of three months from the date of joining work, on the expiry of which your probation may be extended, or your employment will be confirmed at the discretion of the management, by a written order. In the absence of a written order confirming your services, you will continue to be on probation.

2. During the period of probation, your services are liable to be terminated without any notice.

3. Your Cost-To-Company (CTC) will be **Rs. 3,30,000/-**(Rupees Three Lakhs Thirty Thousand only), as per the breakup provided in offer letter. Please keep the details of the contract between you and the company strictly confidential, and do not divulge or discuss the same with any other person except with your reporting heads or the HR Department. Discussion of salary or terms of employment without discretion may be cause for disciplinary action.

4. All statutory deductions such as PF, ESI, Professional Tax, etc. will be deducted from your salary.

5. The Company is obligated to compute Income Tax on salary and any other payments made and deduct tax at source. Please note that the responsibility to make appropriate investments for any tax exemptions under IT rules, declare them, and submit proof for the same to HR within the stipulated timeframe, rests with you. Also, please note that all incentive payments and bonus declared will also be added for tax calculations.

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Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT INGAGE TECHNOLOGIES PVT LTD

NAME : BALAVIGNESHWAR E

ROLL NO : 19BIT4006

DOMAIN : METAVERSE

I have joined internship during the month of January 23rd and the internship program is scheduled for 5 months, where I have completed the modules based on the schedule provided in the Task Sheet and the learning and hands-on practice are on Metaverse.

I need to Login with Google Meet Application with Login credential by this I can access my Task Sheet to access the internship learning content for Metaverse.

There I had an opportunity to connect with the trainers, who would help clarify our queries throughout this program.

I would also be assigned a Mentor, who will be there to guide myself throughout this internshipto help in the completion of this program.

Below are the skills covered in the program :

C#

Unity 3D

AR & VR

IOT

Things speak cloud

By the skills I have learned here, have helped me to Learned about Linux and I also have gainedmore knowledge through this internship.

Signature of Guide

Signature of HOD

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PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

INTERNSHIP REPORT

INTERNSHIP AT INGAGE TECHNOLOGIES PVT LTD

NAME : RAJKUMAR A

ROLL NO : 19BIT4078

DOMAIN : METAVERSE

I have joined internship during the month of January 23rd and the internship program is scheduled for 5 months, where I have completed the modules based on the schedule provided in the Task Sheet and the learning and hands-on practice are on Metaverse.

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C#

Unity 3D

AR & VR

IOT

Things speak cloud

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Signature of Guide

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Thalavapalayam, Karur-639113

Signature of HOD

Head of the Department

Department of Information Technology

M. Kumarasamy College of Engineering

(Autonomous)

Thalavapalayam - Karur.

InGage Technologies Private Limited.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.myingage.com
Phone: +91-98408 34132
GSTN Number: 33AACC17183F1ZN
TAN Number: CHEI07291F

01/01/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that (Mr/Ms) Suryaa AV (Reg No:19BIT4111) student of B.E (Major in Information Technology) from M. Kumarasamy College of Engineering, Karur has completed his/her internship in our company during the period from 31/10/2022 to 25/11/2022. During the period of his/her internship program with us, he/she had been exposed to different processes and was found diligent, hardworking, and inquisitive.

We wish him/her every success in his/her life and career.

Name of the Company Guide: Mr. Sri Harsha – AVP Solutions.

Email: sriharsha@myingage.com

For InGage Technologies Pvt. Ltd.

K. Ganga Director

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PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT INGAGE TECHNOLOGIES PVT LTD

NAME : SURYAA A V

ROLL NO : 19BIT4111

DOMAIN : METAVERSE

I have joined internship during the month of January 23rd and the internship program is scheduled for 5 months, where I have completed the modules based on the schedule provided in the Task Sheet and the learning and hands-on practice are on Metaverse.

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Below are the skills covered in the program :

C#

Unity 3D

AR & VR

IOT

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Signature of Guide

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M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Signature of HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

TRAINING TRAINS

Hostly

Certificate

Certificate No: 2403202407

This is to certify that **Mr PRANESH S (Reg no: 19BIT4068)** has successfully completed the 15 Days Internship From (28/12/2022 - 12/01/2023) on Cyber Security organised by TRAINING TRAINS, **ERODE -638115.**

For DOMAINHOSTIY.COM

Authorized Signatory

ATTESTED

PRINCIPAL

Training Trains Software Inc

Contact: +91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com, www.domainhostly.com

INTERNSHIP REPORT

INTERNSHIP AT PALO ALTO NETWORKS

NAME : Hiruthik R

ROLL NO : 19BIT4036

DOMAIN : Cybersecurity

I am writing this report to summarize my experience during the Cybersecurity Virtual Experience Program at JP Morgan Chase & Co. The program was designed to give participants a comprehensive understanding of cybersecurity in the financial sector, with a focus on identifying and mitigating cyber threats. The program was held from 11th March 2023 to 27th March 2023 and lasted for 15 days.

The program was divided into various modules, each covering different aspects of cybersecurity. The modules included Introduction to Cybersecurity, Cybersecurity Threats, Risk Management, Security Operations, Security Architecture, and Cybersecurity Regulations. Each module consisted of video lectures, interactive quizzes, and practical exercises to reinforce the concepts taught.

Skills Acquired:

Threat Analysis

Risk Management

Security Operations

Security Architecture

The program was well-structured, and the modules were informative and engaging. I am confident that the skills and knowledge I have acquired during this program will be valuable in my future career endeavors. I would like to express my gratitude to JP Morgan Chase & Co. for providing me with this opportunity to learn and grow in the field of cybersecurity.

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M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

Mindtree Offer Letter

ndtree
ember of Larsen & Toubro Group Company

te: **09-Nov-2022**

me: Vijaya Manikandan R
llege: M. KUMARASAMY COLLEGE OF ENGINEERING, Karur

LETTER OF OFFER FOR GRADUATE ENGINEER TRAINEE

ear Vijaya Manikandan R,

/elcome to MINDTREE (hereinafter referred as the "Company"). Congratulations on being selected as a iRADUATE ENGINEER TRAINEE. This offer is on the following terms and conditions, subject to fulfilling the ligibility criteria (refer annexure 1) and a successful background check.

1. During the training period (includes classroom and on the job training) of 3 months, your Stipend including all benefits will be **Rs. 25,000 pm.**

2. All payments made to you would be subject to deduction of applicable taxes at source (TDS). Your remuneration is strictly confidential between you and the Company and should not be discussed with anyone nor divulged to anyone in any manner whatsoever, except with the prior consent of the Company.

3. You will also be issued a detailed Letter of Appointment as GRADUATE ENGINEER TRAINEE subject to you meeting the eligibility criteria as mentioned in Annexure-1. Your appointment is in accordance with the Apprentices Act, 1961

4. Documents - Your offer is subject to you submitting all the mandatory documents at the time of joining. (Refer Annexure-2).

5. Background Verification - As a part of background verification, we need your acknowledgement and authorization to undertake necessary background verification through internal or external agencies. These are including but not limited to your educational / professional credentials and other background checks. If any discrepancy is discovered after you have joined the Company or during background verification, this offer shall stand withdrawn, apart from other legal action being initiated against you.

6. If the above terms and conditions are acceptable, kindly acknowledge this GRADUATE ENGINEER TRAINEE Offer Letter by digitally signing this offer within 7 days from the date of receipt of this mail and offer document.

If you do not digitally sign the offer letter within the above-mentioned period, the aforesaid offer automatically stands cancelled. Post registration on the above portal, if you do not join on the date intimated to you, this offer will be cancelled at the discretion of the Company.

7. You are required to register yourself as an apprentice on the apprenticeship portal http://www.mhrdnats.gov.in within [7] days from the date of this offer or once your final semester is completed as applicable.

8. You may be confirmed in 3 months from the effective start date of your employment with the Company. During this period, a prior notice of 7 days shall be applicable, in case of voluntary resignation by the employee. Your employment with MINDTREE will be terminated without any notice or stipend or compensation in lieu of

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Thalavapalayam, Karur-639113

TRAINING TRAINS

DomainHostly.COM

Certificate

Certificate No: 2403212802

This is to certify that **Mr SANJAY D (Reg no: 19BIT4089)** has successfully completed the 15 Days Internship From (28/12/2022 - 12/01/2023) on Cyber Security organised by TRAINING TRAINS, **ERODE -638115.**

For DOMAINHOSTIY.COM

Authorized Signatory

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PRINCIPAL

Kumaraswamy College of Engineering

Thalavapalayam, Karur -639113

Training Trains Software Inc

Contact: +91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com, www.domainhostly.com

Shiash

Focus on Deliverables

27th January 2023

Mr. Rizathoufiq K

Reg. No. 19BIT4083

M.Kumarasamy College of Engineering

Karur.

Dear Rizathoufiq,

On behalf of **Shiash Info Solutions Private Limited**.We would like to inform you that you have been accepted as one of our interns.We are pleased to inform you that you have been qualified as per the company requirements for the internship.You will be working with our Technical team.

Your internship will begin effectively from **January 2023 to March 2023**.You will be assigned to various tasks which relate to the project assigned to you after which your performance will be assessed and appraised.

For **Shiash Info Solutions Private Limited**

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering

Thalavapalayam, Karur-639113

Ashwini Kanniyappan

Manager – Human Resources

Shiash Info Solutions Private Limited

#51, Level 4, Tower A, Rattha TEK Meadows, Old Mahabalipuram Road,

Sholinganallur, Chennai – 600 119, Tamil Nadu, India

+91 44 66255681 info@shiash.com

INTERNSHIP AT NCR CORPORATION INDIA PVT LTD

NAME : KAVINKUMAR M

ROLL NO : 19BIT4048

DOMAIN : HARDWARE

I joined NCR at 13th march 2023. They organized a inauguration program and explained about the do's and don't's of company. Documents were verified and some fun games were happened after lunch then received goodies for us.

Then for 3 days, we have training at NCR company. We have learned some mandatory about history about companies. Software testing and we done behavioural and cognarative mandatory new project implementation on Automated Teller Machines, etc.

In between our training we have some interactive behavioural sessions.

NCR training were started at 13th march 2023 with a brief introduction about the projects and work behind it. There were many division lines in NCR but we studied about products of ATM.

I learned,

- Assembling ATM machine
- Button of Packing
- Testing
  1. Flash testing
  2. Internal testing
  3. External testing

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

Signature of Guide

Signature of HoD

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M. Kumarasamy College of Engineering
Thalavapalayam, Karur - 639113

INTERNSHIP REPORT

INTERNSHIP AT DOMAIN HOSTLY

NAME: ANUSHHARAN DJ

ROLL NO:19BIT4301

DOMAIN: CYBERSECURITY

I Joined Domain hostly at 28th december 2022. I learned about spring boot and IOCs. Spring Boot is a popular framework for building web applications in the Java programming language. It is built on top of the Spring framework and provides a set of pre-configured components that make it easy to develop production-ready applications quickly. Some of the key features of Spring Boot include:

Auto-configuration: Spring Boot includes a set of pre-configured components that can be easily customized to fit your specific needs. It automatically configures most of the components based on the dependencies you include in your project.

Embedded web server: Spring Boot includes an embedded web server, which makes it easy to deploy and run web applications without having to configure an external web server.

Actuator: Spring Boot provides an actuator that exposes metrics and monitoring information about your application, making it easier to monitor and manage your application in production.

Easy testing: Spring Boot provides a set of utilities for testing your application, including support for unit testing and integration testing.

I learn some of the common tools and techniques used to identify and analyze IOCs, such as intrusion detection systems (IDS), Security Information and Event Management (SIEM) systems, and endpoint detection and response (EDR) solutions. These tools use a combination of signature-based and behavior-based analysis to identify potential IOCs and alert security analysts to potential security threats.

I learned that IOCs are an important component of threat intelligence, and that sharing IOCs with other organizations can help to prevent cyber attacks. Organizations can share IOCs through various channels, such as threat intelligence platforms, email lists, and social media groups.

Finally my internship ends at 12th January 2023.

Signature of Guide

Signature of HOD

Head of the Departmen...
Department of Information Techn...
...Kumaraswamy College of Engineering
Thalavapalayam, Karur

ATTESTED

PRINCIPAL
...Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT INGAGE TECHNOLOGIES PVT LTD

NAME : SONALI S

ROLL NO : 19BIT4054

DOMAIN : METAVERSE

I have joined internship during the month of January 23rd and the internship program is scheduled for 5 months, where I have completed the modules based on the schedule provided in the Task Sheet and the learning and hands-on practice are on Metaverse.

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Below are the skills covered in the program :

Ui

Unity 3D

AR & VR

IOT

Things speak cloud

By the skills I have learned here, have helped me to Learned about Linux and I also have gainedmore knowledge through this internship.

Signature of Guide

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Thalavapalayam, Karur-639113

Signature of HOD

Head of the Department

Department of Information Technology

M. Kumarasamy College of Engineering

Thalavapalayam, Karur

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

ME: SUBASH N

)LL NO: 19BIT4103

)MAIN: JAVA, REACT

I am delighted to have joined on 16 JAN 2023 and completed my Full Stack Developer Internship ›gram offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills both Java and React technologies.

During the program, I had access to the Examly platform, where I was able to access learning materials ıd hands-on practice labs. The program had a variety of modules, each one designed to develop my ıderstanding and practical experience with the following technologies and skills:

- Java: One of the most widely used programming languages, Java is the foundation of many applications and systems. During the program, I learned the basics of Java programming and how to use Java for web development.
- React: A popular JavaScript library used for building user interfaces, react is used in many web applications. The internship helped me to develop my React skills and build interactive web applications.
- Maven: An open-source tool used for project management and build automation; Maven is used to manage Java-based projects. I learned how to use Maven to manage dependencies, build and test Java applications.
- Unit testing: The internship program included an emphasis on testing, with a focus on unit testing. I learned how to write and execute unit tests to ensure that the applications I developed were working as expected.
- UML: Unified Modelling Language (UML) is a visual language used to represent software designs. During the program, I learned how to create UML diagrams to model and design software systems.
- HTML and CSS: These two languages are the foundation of web development. I learned how to use HTML to structure web pages and CSS to style them.
- JavaScript: Another popular programming language, JavaScript is used to create interactive web applications. During the program, I learned how to use JavaScript to build dynamic web pages.

Overall, the Virtusa Full Stack Developer Internship program was an excellent learning experience. It provided me with a solid foundation in the technologies and skills needed to build web applications. I am grateful for the opportunity to have participated in this program and look forward to applying the skills I have acquired in my future career as a Full Stack Developer.

Signature of Student

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INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

NAME: SURESHKUMAR M

ROLL NO: 19BIT4108

DOMAIN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This internship program is ongoing and is focused on developing skills in the Java domain, specifically in web application development.

During the program, I have gained hands-on experience in several programming languages and technologies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and secure.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is a popular language for building enterprise applications, and it is essential in developing scalable and secure applications.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of web pages. JavaScript has helped me add interactivity and functionality to web pages, while PHP has been instrumental in server-side scripting.

SQL is a critical language in database management, and I have learned how to use it to store and retrieve data from databases. I have also gained knowledge in cloud computing, which has helped me understand how to build and deploy web applications in cloud environments.

Finally, Python is a versatile language that is used in a wide range of applications, including data analysis and machine learning. I have gained knowledge in this language, which will help me in my future career.

Overall, my experience at LTIMindtree has been invaluable in developing my skills in web application development. I look forward to continuing to learn and grow as a developer in this program and applying the skills I have acquired in my future career.

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INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

NAME: KAVINDRA J

ROLL NO: 19BIT4047

DOMAIN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This internship program is ongoing and is focused on developing skills in the Java domain, specifically in web application development.

During the program, I have gained hands-on experience in several programming languages and technologies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
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- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and secure.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is a popular language for building enterprise applications, and it is essential in developing scalable and secure applications.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of web pages. JavaScript has helped me add interactivity and functionality to web pages, while PHP has been instrumental in server-side scripting.

SQL is a critical language in database management, and I have learned how to use it to store and retrieve data from databases. I have also gained knowledge in cloud computing, which has helped me understand how to build and deploy web applications in cloud environments.

Finally, Python is a versatile language that is used in a wide range of applications, including data analysis and machine learning. I have gained knowledge in this language, which will help me in my future career.

Overall, my experience at LTIMindtree has been invaluable in developing my skills in web application development. I look forward to continuing to learn and grow as a developer in this program and applying the skills I have acquired in my future career.

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INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

E: SANGAMI K R

. NO: 19BIT4087

AIN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This ship program is ongoing and is focused on developing skills in the Java domain, specifically in web ation development.

During the program, I have gained hands-on experience in several programming languages and logies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and secure.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is lar language for building enterprise applications, and it is essential in developing scalable and secure ations.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of web JavaScript has helped me add interactivity and functionality to web pages, while PHP has been ental in server-side scripting.

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Finally, Python is a versatile language that is used in a wide range of applications, including data s and machine learning. I have gained knowledge in this language, which will help me in my future

Overall, my experience at LTIMindtree has been invaluable in developing my skills in web application pment. I look forward to continuing to learn and grow as a developer in this program and applying the have acquired in my future career.

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29/3/23

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Department of Information Technology,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur-639 113.

TE | 8th Semester Pre Onboarding Internship Program | Offer Letter

us Onboarding <Campus.Onboarding@ltimindtree.com> Tue, 28 Feb, 2023 at 1:31 pm
shankumar08361@gmail.com <roshankumar08361@gmail.com>

r Roshan Kumar B,

are pleased to offer you an internship opportunity (**"Internship"**) at LTIMindtree Limited (**"LTIMindtree"**). The terms and nditions of this offer are as follows and your Internship will be subject to and governed by these terms and conditions which shall binding upon you receiving this email.

1.	**Internship Duration**	:	**9 to 12 weeks**
2.	**Commencement Date**	:	**21 Feb 2023**
3.	**Location**	:	**Remote**
4.	**Stipend**	:	**Milestone based - Refer 12.**

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dditional Terms:

1. You acknowledge that the purpose of this Internship is to provide you with the opportunity to learn generally about information technology work and to gain practical experience and insights into the workplace and industry, and LTIMindtree does not derive an immediate advantage from the activities performed by you during the Internship Duration. It is essential for you to actively participate in this internship by completing the learnings successfully in the stipulated time period
2. The Stipend stipulated above is payable on completion of the milestones as set out in Clause 12 and on you joining LTIMindtree as a full-time employee. The amount of stipend that you will be entitled to will be determined as per the criteria set out in Clause 12. Please note that the said amount will be a one-time payment and will not form part of your cost to the company as a full-time employee. The said amount will be payable to you subject to applicable statutory and other deductions, and applicable tax withholdings. Any costs and expenses borne by you in connection with the Internship shall be your sole responsibility.
3. You may be permitted to be absent during the Internship Duration after obtaining prior approval from your Mentor and your stipend may be reduced, at LTIMindtree' s sole discretion and option, by the period of your absence. Prolonged, frequent, or unapproved absences may lead to immediate termination of your Internship upon notice from LTIMindtree.
4. While with us, you will be required to adhere to policies/practices of LTIMindtree as applicable to you in your capacity as an intern and as amended from time to time solely at the discretion of LTIMindtree (**"Policies"**). These policies will be shared with you before your internship commences and during the Internship Duration.
5. **Confidentiality:** As an intern, you will be privy to, have access to or receive Confidential Information (as defined below). You shall (i) use such Confidential Information solely in relation to and to fulfill your Internship; (ii) disclose Confidential Information only to such persons and as permitted in writing by LTIMindtree; (iii) treat the Confidential Information with all reasonable care; and (iv) return all Confidential Information (and all copies thereof) to LTIMindtree immediately upon termination or completion of your Internship. Your obligations to maintain secrecy and confidentiality of the Confidential Information shall continue after the termination of your Internship with LTIMindtree.

*"**Confidential Information**" which means any information, data or non-public business, commercial, personal, or technical information of LTIMindtree, its affiliates, parent company, their personnel, or that of their clients including but not limited to research and development projects, services, and business operations, which may be disclosed in writing, orally, electronically, by or on behalf of LTIMindtree. Any documents and information, which reflect, incorporate, and/or are generated using any such Confidential Information, will also be deemed as Confidential Information. All Confidential Information shall be deemed as LTIMindtree' s trade secrets.*

INTERNSHIP AT NCR CORPORATION INDIA PVT LTD

NAME : VISHAL R

ROLL NO : 19BIT4126

DOMAIN : HARDWARE

I joined NCR at 13th march 2023. They organized a inauguration program and explained about the do's and don't's of company. Documents were verified and some fun games were happened after lunch then received goodies for us.

Then for 3 days, we have training at NCR company. We have learned some mandatory about history about companies. Software testing and we done behavioural and cognarative mandatory new project implementation on Automated Teller Machines, etc.

In between our training we have some interactive behavioural sessions.

NCR training were started at 13th march 2023 with a brief introduction about the projects and work behind it. There were many division lines in NCR but we studied about products of ATM.

In CONTROLLER we add implementation and give durations to watch how the system is getting performed based on work of new implementations when it is in a peak or a normal period.

In ANALYSIS the final report is generated and the think time etc are generated according to the load.

After the training feedback review were conducted and the project was assigned individually in ATM assemble and software testing. The team allocated supervisor to check the flow of work in MIDAS software and set the users to accomplish the work. Then I present my project to my supervisor and lead and got rewards of my work.

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INTERNSHIPAT COGNIZANTINDIAPVTLTD

NAME : NITHISH KUMAR A

ROLLNO : 19BIT4064

DOMAIN :IT - PAT

This email is to give you an important update with regard to your internship offer and plan for onboarding which you are awaiting to receive from Cognizant.

We would like to let you know that you will be lined up for your Internship onboarding after May 15th. This is planned based on the inputs received from your TPO on your semester exams dates.

Your Onboarding / Training location would be at Chennai

We would request you to acknowledge your acceptance for the above mentioned onboarding date and the location in the survey below before 31st March 2023 for us to proceed further with your Internship offer and onboarding process. You will be provided a 5 day leave in alignment to your 8th semester examination if it happens to fall during the course of your internship.

In case if you are not interested to take up your Internship at the above mentioned location / date we would remap you to the Certified Skill Development Program (CSD) which would commence after your college graduation and the offer rollout process would follow in alignment to a business demand.

We truly appreciate your patience and request you to stay tuned for further communication from us in this regard.

Disclaimer:

- Cognizant does not entertain payments of any kind from candidates or vendors for employment. Requests for such payments should be promptly reported to GenCHRComplianceIND@cognizant.com
- If you encounter anyone who claims to offer jobs at Cognizant in return for any benefit (monetary or non-monetary), please do not entertain them. Please be informed that Cognizant shall not be held responsible for any such instances or payments you make
- We recommend that you do not respond to spam emails/ messages you do not trust; never disclose your personal or financial details to anyone you do not know. If any such mails purporting to come from Cognizant are received, we advise you to contact us at GenCHRComplianceIND@cognizant.com
- Cognizant takes its hiring practices seriously and appreciates you keeping the Company informed of any individuals posing as Cognizant employees who make false job offers using Cognizant's name. We remind you that while recruiting employees, Cognizant will only communicate with you through authentic Cognizant email addresses and Cognizant will never extend any job offers to anyone based on an online application without first conducting an in-person, video, or telephone interview through verified encrypted channels
- To ascertain that you are receiving a genuine call from Cognizant, please ensure to collect the recruiter's details (full name; official email id, employee ID & mobile number) during the call.

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INTERNSHIPAT COGNIZANTINDIAPVTLTD

NAME : RAGHUL V

ROLLNO : 19BIT4075

DOMAIN :SALESFORCE DEVELOPER

This email is to give you an important update with regard to your internship offer and plan for onboarding which you are awaiting to receive from Cognizant.

We would like to let you know that you will be lined up for your Internship onboarding after May 15th. This is planned based on the inputs received from your TPO on your semester exams dates.

Your Onboarding / Training location would be at Chennai

We would request you to acknowledge your acceptance for the above mentioned onboarding date and the location in the survey below before 31st March 2023 for us to proceed further with your Internship offer and onboarding process. You will be provided a 5 day leave in alignment to your 8th semester examination if it happens to fall during the course of your internship.

In case if you are not interested to take up your Internship at the above mentioned location / date we would remap you to the Certified Skill Development Program (CSD) which would commence after your college graduation and the offer rollout process would follow in alignment to a business demand.

We truly appreciate your patience and request you to stay tuned for further communication from us in this regard.

Disclaimer:

- Cognizant does not entertain payments of any kind from candidates or vendors for employment. Requests for such payments should be promptly reported to GenCHRComplianceIND@cognizant.com
- If you encounter anyone who claims to offer jobs at Cognizant in return for any benefit (monetary or non-monetary), please do not entertain them. Please be informed that Cognizant shall not be held responsible for any such instances or payments you make
- We recommend that you do not respond to spam emails/ messages you do not trust; never disclose your personal or financial details to anyone you do not know. If any such mails purporting to come from Cognizant are received, we advise you to contact us at GenCHRComplianceIND@cognizant.com
- Cognizant takes its hiring practices seriously and appreciates you keeping the Company informed of any individuals posing as Cognizant employees who make false job offers using Cognizant's name. We remind you that while recruiting employees, Cognizant will only communicate with you through authentic Cognizant email addresses and Cognizant will never extend any job offers to anyone based on an online application without first conducting an in-person, video, or telephone interview through verified encrypted channels
- To ascertain that you are receiving a genuine call from Cognizant, please ensure to collect the recruiter's details (full name; official email id, employee ID & mobile number) during the call.

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Thalavapalayam - Karur.

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INTERNSHIP REPORT

Name: SABARISH S

Register No: 19BIT4086

Software Developer Intern at Datazoic Inc.

During my internship at Datazoic Inc., which started in February 2023 and is currently ongoing, I have been able to learn and apply my skills in Java and JavaScript. I have also had the opportunity to work on an MERN stack application, which has helped me gain practical experience in full-stack development. As a software developer intern, I have been able to work alongside experienced professionals who have provided me with guidance and support as I navigate my way through the development process. Overall, my internship at Datazoic Inc. has been an excellent learning experience that has helped me develop my skills and prepare for a career in software development.

Full Stack Developer Intern at Webknot Technologies Pvt, Ltd,

As a Full Stack Developer Intern at Webknot Technologies, my responsibilities included developing web applications using NestJS, PostgreSQL, and ReactJS. During my three-month internship that took place from May 2022 to July 2022, I was able to gain hands-on experience in full-stack development and learned how to create web applications from scratch. My internship at Webknot Technologies was a great opportunity for me to learn from experienced developers and get a glimpse of what it's like to work in a professional development environment.

Flutter Developer Intern at AI.one

At AI.one, I had the opportunity to work as a Flutter Developer Intern from February 2022 to April 2022. During this three-month period, I was able to develop mobile applications and create APIs for both app and web. I also learned how to use NodeJS, Flutter, MongoDB, ML with Dart, and JavaScript. My internship at AI.one helped me hone my skills in mobile app development and gave me valuable experience in creating APIs.

Web Developer Intern at HypeDigitally

During my four-month internship at HypeDigitally from September 2021 to December 2021, I worked as a Web Developer Intern. My main responsibilities included developing web applications and maintaining the servers to assist the developers on my team. Throughout my internship, I had the opportunity to learn Laravel, CI, Django, Flask, WordPress, and MERN. My

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INTERNSHIPREPORT

RNSHIP AT DOMAIN HOSTLY

IE: SURIYA R

LNO:19BIT4109

MAIN:CYBERSECURITY

This report presents the details of my cybersecurity internship experience. The internship took e from 02/02/20223 to 20/02/2023,and it was held at TRAININGTRAINS.During this period,I ked on various Cybersecurity projects, gained practical experience, and learned new skills.

The arrangement of technologies, protocols, and methods referred to as "cyber security" are nt to guard against attacks, damage, malware, viruses, hacking, data theft, and unauthorized access networks, devices, programmes, and data. The basic goal of cyber security is to protect the fidentiality of all business data from external and internal threats as well as disruptions brought on natural disasters.

rned about spring boot and IOCs. Spring Boot is a popular framework for building web applications e Java programming language. It is built on top of the Spring framework and provides a set of pre-figured components that make it easy to develop production-ready applications quickly. Some of the features of Spring Boot include:

to-configuration: Spring Boot includes a set of pre-configured components that can be easily stomized to fit your specific needs. It automatically configures most of the components based on the pendencies you include in your project.

nbedded webserver:Spring Boot includes an embedded webserver,which makes it easy to deploy and n web applications without having to configure an external webserver.

ctuator: Spring Boot provides an actuator that exposes metrics and monitoring information about ur application, making it easier to monitor and manage your application in production.

sy testing: Spring Boot provides a set of utilities for testing your application, including support for it testing and integration testing.

I learn some of the common tools and techniques used to identify and analyze IOCs, such as trusion detection systems (IDS), Security Information and Event Management (SIEM) systems, and ndpoint detection and response (EDR) solutions. These tools use a combination of signature-based nd behavior based analysis to identify potential IOCs and alert security analysts to potential security reats.

I learned that IOCs are an important component of threat intelligence, and that sharing IOCs ith other organizations can help to prevent cyber attacks. Organizations can share IOCs through arious channels,such as threat intelligence platforms,emaillists,and socialmedia groups.

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INTERNSHIP REPORT

INTERNSHIP AT KAAR TECHNOLOGIES

NAME: SRINATH S

REG NO: 19BIT4099

DOMAIN: SAP, ANGULAR

I am writing this report to provide an overview of my internship experience with KAAR Technologies. KAAR Technologies is a leading company in the domain of SAP, offering a wide range of SAP-related services and solutions to businesses across the globe. During my internship period of Oct-2022 to Oct-2023, I had the opportunity to work with a team of experienced professionals and gain valuable insights into the world of SAP and related technologies.

As an intern at KAAR Technologies, my main roles and responsibilities were centered around developing my skills in SAP, Angular, HTML, CSS, and Python. I was assigned to work on various projects related to SAP implementation, customization, and maintenance. My tasks included:

- Collaborating with the team to design and develop SAP-related applications using Angular, HTML, and CSS
- Assisting in the integration of SAP with other systems and applications
- Writing Python scripts to automate various tasks in SAP
- Conducting testing and debugging to ensure the quality and accuracy of the code
- Providing support to the team in troubleshooting and resolving technical issues

KAAR Technologies provided me with a comprehensive training program to develop my skills in SAP and related technologies. The training sessions were conducted by experienced professionals, and I was given hands-on experience in working with SAP systems and applications. The training covered various aspects of SAP, including ABAP programming, SAP HANA, SAP Basis, and SAP Fiori. Additionally, I was given training on Angular, HTML, CSS, and Python to enhance my development skills.

Through my internship experience at KAAR Technologies, I have gained valuable knowledge and skills in SAP and related technologies. I have learned to develop SAP applications using Angular, HTML, and CSS and to write Python scripts for automation. I have also gained knowledge of SAP integration and troubleshooting. The internship has helped me to gain practical experience in working with a team of professionals and in a real-world environment.

In conclusion, my internship experience with KAAR Technologies has been highly rewarding, providing me with valuable insights into the world of SAP and related technologies. The company's commitment to training and development has helped me to develop my skills in SAP, Angular, HTML, CSS, and Python. I am grateful for the opportunity to have worked with such a dedicated and experienced team, and I am confident that the skills I have gained during my internship will help me in my future career endeavors.

Student Signature

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INTERNSHIP REPORT

INTERNSHIP AT DOMAIN HOSTLY

NAME: HEMALATHA P

ROLL NO:19BIT4035

DOMAIN: CYBERSECURITY

I Joined Domain hostly at 28th december 2022. I learned about spring boot and IOCs. Spring Boot is a popular framework for building web applications in the Java programming language. It is built on top of the Spring framework and provides a set of pre-configured components that make it easy to develop production-ready applications quickly. Some of the key features of Spring Boot include:

Auto-configuration: Spring Boot includes a set of pre-configured components that can be easily customized to fit your specific needs. It automatically configures most of the components based on the dependencies you include in your project.

Embedded web server: Spring Boot includes an embedded web server, which makes it easy to deploy and run web applications without having to configure an external web server.

Actuator: Spring Boot provides an actuator that exposes metrics and monitoring information about your application, making it easier to monitor and manage your application in production.

Easy testing: Spring Boot provides a set of utilities for testing your application, including support for unit testing and integration testing.

I learn some of the common tools and techniques used to identify and analyze IOCs, such as intrusion detection systems (IDS), Security Information and Event Management (SIEM) systems, and endpoint detection and response (EDR) solutions. These tools use a combination of signature-based and behavior-based analysis to identify potential IOCs and alert security analysts to potential security threats.

I learned that IOCs are an important component of threat intelligence, and that sharing IOCs with other organizations can help to prevent cyber attacks. Organizations can share IOCs through various channels, such as threat intelligence platforms, email lists, and social media groups.

Finally my internship ends at 12th January 2023.

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Virtual Internship Completion Certificate

This is to certify that

KRISHNA ADITHYA S

M.Kumarasamy College of Engineering

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during Oct - Dec 2021

Supported By

Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

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rtificate ID : c8d3c0e320c79420757cdcf05f4b28d9
udent ID : STU6083ad77378d61619242359

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National Educational Alliance for Technology

EduSkills
Nation Building Through Skills

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This is to certify that

VIGNESH P

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during Mar - May 2022

Supported By paloalto Cybersecurity Academy

Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

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Certificate ID :314a10b921e4fd559c53eb192ced52f4
Student ID :STU6083bcb9143cc1619246265

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National Educational Alliance for Technology

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2021

Virtual Internship Completion Certificate

This is to certify that

SRI DEVI N

M.Kumarasamy College of Engineering

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during Oct - Dec 2021

Supported By paloalto Cybersecurity Academy

Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

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Certificate ID :2fa52b7374663e3ad45587c8665c92a8
Student ID :STU6083a6c8883601619240648

NCR Corporation India Pvt Ltd.,
14/1A, Mahindra World City,
Veerapuram Village,
Chengalpattu District,
Tamil Nadu - 603 004, India
Tel: +91 - 44 6618 9999
Fax: +91 - 44 6618 9797
www.ncr.com

REF: NCR/HRD/CAMPUS/MKCE/GAT-RECRUIT/02-001/2023
27th February 2023

Dear Gowri Shankar M

Sub: Offer Letter for Selection of Associate Trainee

This has reference to your application dt. 27th February 2023 and subsequent interview held with you on Monday the 27th February 2023 at M. Kumarasamy College of Engineering, Thalavapalayam, Karur - 639113, Tamil Nadu.

Based on your interview performance, you are provisionally selected as an **Associate Trainee** on a consolidated stipend of Rs.15,000/- (Rs.12,800/- Fixed Stipend, Rs.700/- HRA & Variable Allowance of Rs.1500/-) for a period of one year from the date of your joining.

After successful completion of your training, you will be considered for further period of extension of your training as and when vacancy arises based on your acquaintance during the training period.

You are hereby advised to report your duty on or before 06th March 2023 at our KSM Manufacturing facility (Refer the address in our letter head) and bring the following ***Original Certificates for verification along with photocopy***

I. SSLC Mark Sheet
II. HSC Mark Sheet
III. Degree / Diploma Certificate/all semester marksheets (till 6th Semester)
IV. Aadhaar Card
V. PAN Card
VI. Transfer Certificate
VII. Bank Passbook (Individual Account)
VIII. 6Nos. of passport size and two stamp size photos.
IX. Project Report if any

With Best Wishes
For NCR Corporation India Pvt Ltd.,

ATTESTED
PRINCIPAL,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur-639113

R.K. Saravanan
Head - Employee/Labor Relations & HRBP

Regd. Office: Niton Building, 3rd Floor, #11, Palace Road, Bangalore, 560 052, India
Tel: +91 - 80 - 3078 6900, Fax: +91 - 80 - 2225 7950

INTERNSHIP AT NCR CORPORATION INDIA PVT LTD

NAME : VINOTH KUMAR A

ROLL NO : 19BIT4123

DOMAIN : HARDWARE

I joined NCR at 13th march 2023. They organized a inauguration program and explained about the do's and don't's of company. Documents were verified and some fun games were happened after lunch then received goodies for us.

Then for 3 days, we have training at NCR company. We have learned some mandatory about history about companies. Software testing and we done behavioural and cognarative mandatory new project implementation on Automated Teller Machines, etc.

In between our training we have some interactive behavioural sessions.

NCR training were started at 13th march 2023 with a brief introduction about the projects and work behind it. There were many division lines in NCR but we studied about products of ATM.

In CONTROLLER we add implementation and give durations to watch how the system is getting performed based on work of new implementations when it is in a peak or a normal period.

In ANALYSIS the final report is generated and the think time etc are generated according to the load.

After the training feedback review were conducted and the project was assigned individually in ATM assemble and software testing. The team allocated supervisor to check the flow of work in MIDAS software and set the users to accomplish the work. Then I present my project to my supervisor and lead and got rewards of my work.

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PRINCIPAL

M. Kumarasamy College of Engineering

Thalavapalayam, Karur-639113

Signature of HoD

Head of the Department

Department of Information Technology

M. Kumarasamy College of Engineering

(Autonomous)

Thalavapalayam - Karur.

INTERNSHIP AT NCR CORPORATION INDIA PVT LTD

NAME : RAVINDRAN D

ROLL NO : 19BIT4081

DOMAIN : HARDWARE

I joined NCR at 13th march 2023. They organized a inauguration program and explained about the do's and don't's of company. Documents were verified and some fun games were happened after lunch then received goodies for us.

Then for 3 days, we have training at NCR company. We have learned some mandatory about history about companies. Software testing and we done behavioural and cognarative mandatory new project implementation on Automated Teller Machines, etc.

In between our training we have some interactive behavioural sessions.

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In CONTROLLER we add implementation and give durations to watch how the system is getting performed based on work of new implementations when it is in a peak or a normal period.

In ANALYSIS the final report is generated and the think time etc are generated according to the load.

After the training feedback review were conducted and the project was assigned individually in ATM assemble and software testing. The team allocated supervisor to check the flow of work in MIDAS software and set the users to accomplish the work. Then I present my project to my supervisor and lead and got rewards of my work.

+

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Signature of HoD

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M. Kumarasamy College of Engineering

Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

INTERNSHIP REPORT

INTERNSHIP AT SOCIETE GENERALE (SOCGEN)

KISHORE R.V

NO: 19B1T4049

IN: PEGA DEVELOPER

I am currently a Graduate Trainee at SocGen, where I joined on Feb 27, 2023. This internship is ongoing and is focused on developing skills in the Pega domain, specifically in software ment.

During the program, I have gained hands-on experience by working in various user stories, which is tely related to organization projects. Through my training, I have learnt few advanced logics of some es and rule categories, like:

- Activity
- Integration for API's
- Work basket
- Routing
- User Interface

These skills are essential in developing projects that are scalable, reliable, and secure.

As a Graduate Trainee, I am learning how to design and develop software applications using Pega. a popular software platform for developing enterprise-level business applications. It provides a wide of tools and features for building complex, rules-based workflows, automating business processes, and ing data and content in a secure way.

tion is very much essential to connect multiple API's for securing, storing, and managing data and ents. With the help of activities using advanced logics, we develop advanced configuration in our re applications.

In addition to Pega, I have also gained knowledge in cloud computing, which has helped me tand how to work on cloud environments.

, apart from this I have learnt about other software's internally which help us to improve our Pega ation faster and more secure.

Overall, my experience at SocGen has been invaluable in developing my skills in Pega application pment. I look forward to continue to learn and grow as a developer in this program and applying the I have acquired in my future career.

Signature of Student

Signature of Guide

Signature of HOD

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Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

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PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT ZOHO CORPORTATION PVT LTD

NAME : RAJKUMAR A

ROLL NO : 19BIT4078

DOMAIN : ELASTIC SEARCH

I have joined internship during the month of July 15, 2022 and the internship program is scheduled for 1 months, where I have completed the modules based on the schedule provided in the Task Sheet and the learning and hands-on practice are on Elastic Search.

I need to Login with Google Meet Application with Login credential by this I can access my Task Sheet to access the internship learning content for Elastic Search.

There I had an opportunity to connect with the trainers, who would help clarify our queries throughout this program.

I would also be assigned a Mentor, who will be there to guide myself throughout this internship to help in the completion of this program.

Below are the skills covered in this program:

Java

Elastic Search

HTML

JavaScript

By the skills I have learned here, have helped me to Learned about Elastic Search and I also have gained more knowledge through this internship.

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Thalavapalayam, Karur-639113

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Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education

N·E·A·T
प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology

EduSkills
Nation Building Through Skills

Virtual Internship Completion Certificate

This is to certify that

PRANAV RAJA

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during Mar - May 2022

Supported By paloalto Cybersecurity Academy

Saravanan Rajagopal Training Partner Manager, APAC Palo Alto Networks	**Shri Buddha Chandrasekhar** Chief Coordinating Officer (CCO) NEAT Cell, AICTE	**Dr. Satya Ranjan Biswal** Chief Technology Officer (CTO) EduSkills

ATTESTED
PRINCIPAL
M.Kumarasamy College of Engineering

Certificate ID :0635b88e655fd20f2e2625a371521898
Student ID :STU6083afbe6325b1619242942

TRAINING TRAINS

DomainHostly.COM

Certificate

Certificate No: 2403202104

This is to certify that **Mr SUBHIKSHANAND G M (Reg no: 19BIT4104)** has successfully completed the 15 Days Internship From (28/12/2022 - 12/01/2023) on Cyber Security organised by TRAINING TRAINS, **ERODE -638115.**

For DOMAINHOSTIY.COM

Authorized Signatory

ATTESTED

PRINCIPAL,
Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

Training Trains Software Inc

Contact: +91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com, www.domainhostly.com

INTERNSHIP REPORT

INTERNSHIP AT KAAR TECHNOLOGIES

RANITHA. K

: 19BIT4069

N: SAP, ANGULAR

am writing this report to provide an overview of my internship experience with KAAR Technologies. echnologies is a leading company in the domain of SAP, offering a wide range of SAP-related services ions to businesses across the globe. During my internship period of Oct-2022 to Oct-2023, I had the ity to work with a team of experienced professionals and gain valuable insights into the world of SAP ed technologies.

As an intern at KAAR Technologies, my main roles and responsibilities were centered around ng my skills in SAP, Angular, HTML, CSS, and Python. I was assigned to work on various projects o SAP implementation, customization, and maintenance. My tasks included:

- Collaborating with the team to design and develop SAP-related applications using Angular, HTML, and CSS
- Assisting in the integration of SAP with other systems and applications
- Writing Python scripts to automate various tasks in SAP
- Conducting testing and debugging to ensure the quality and accuracy of the code
- Providing support to the team in troubleshooting and resolving technical issues

KAAR Technologies provided me with a comprehensive training program to develop my skills in SAP ated technologies. The training sessions were conducted by experienced professionals, and I was given on experience in working with SAP systems and applications. The training covered various aspects of ncluding ABAP programming, SAP HANA, SAP Basis, and SAP Fiori. Additionally, I was given g on Angular, HTML, CSS, and Python to enhance my development skills.

Through my internship experience at KAAR Technologies, I have gained valuable knowledge and n SAP and related technologies. I have learned to develop SAP applications using Angular, HTML, and nd to write Python scripts for automation. I have also gained knowledge of SAP integration and eshooting. The internship has helped me to gain practical experience in working with a team of sionals and in a real-world environment.

In conclusion, my internship experience with KAAR Technologies has been highly rewarding. ding me with valuable insights into the world of SAP and related technologies. The company's nitment to training and development has helped me to develop my skills in SAP, Angular, HTML, CSS, Python. I am grateful for the opportunity to have worked with such a dedicated and experienced team, I am confident that the skills I have gained during my internship will help me in my future career avors.

Student Signature

Guide Signature

HOD Signature
Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
Thalavapalayam, Karur

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PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

TRAINING TRAINS

DomainHostly.COM

Certificate

Certificate No: 240320108

This is to certify that **Mr MUKESH SAI M(Reg no: 19BIT4059)** has successfully completed the 15 Days Internship From (28/12/2022 - 12/01/2023) on Cyber Security organised by TRAINING TRAINS, **ERODE -638115.**

For DOMAINHOSTIY.COM

Authorized Signatory

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PRINCIPAL

Kumarasamy College of Engineering

Thalavapalayam Karur-639113

Training Trains Software Inc

Contact: +91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com, www.domainhostly.com

N·E·A·T

National Educational Alliance for Technology

EduSkills

Virtual Internship Completion Certificate

This is to certify that

SANJEY KUMAR R

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during Mar - May 2022

Supported By paloalto Cybersecurity Academy

Saravanan Rajagopal
...ng Partner Manager, APAC
Palo Alto Networks

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

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M.Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

...cate ID :3753e730ce641e169a6083d1fc42d4cd
...nt ID :STU6083e97312e6a1619257715

N·E·A·T
National Educational Alliance for Technology

EduSkills
Nation Building Through Skills

2021

Virtual Internship Completion Certificate

This is to certify that

RAGHU K V

M.Kumarasamy College of Engineering

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during Oct - Dec 2021

Supported By blueprism University

Ana Howes
Global Head of Education Services
Blue Prism

Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

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PRINCIPAL
M.Kumarasamy College of Engineering

Certificate ID :187871a3064a9e8f675c683430c7810d
Student ID :STU6083a8422b9121619241026

INTERNSHIP AT NCR CORPORATION INDIA PVT LTD

NAME : VIGNESHWAR R

ROLL NO : 19BIT4118

DOMAIN : HARDWARE

I joined NCR at 13th march 2023. They organized a inauguration program and explained about the do's and don't's of company. Documents were verified and some fun games were happened after lunch then received goodies for us.

Then for 3 days, we have training at NCR company. We have learned some introductory about history about companies. Software testing and we done behavioural and organizational mandatory new project implementation on Automated Teller Machines etc.

In between our training we have some interactive behavioural sessions.

NCR training were started at 13th march 2023 with a brief introduction about the progress and work behind it. There were many division lines in NCR but we studied about products of ATM.

In CONTROLLER we add implementation and give durations to watch how the system is getting performed based on work of new implementations when it is in a peak or a normal period.

In ANALYSIS the final report is generated and the think time etc are generated according to the load.

After the training feedback review were conducted and the project was assigned individually in ATM assemble and software testing. The team allocated supervisor to check the flow of work in MIDAS software and set the users to accomplish the work. Then I present my project to my supervisor and lead and got rewards of my work.

Signature of Guide

Signature of HoD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam, Karur.

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PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

ThinkLance

CERTIFICATE
OF INTERNSHIP

THIS IS TO CERTIFY THAT

[redacted]

has successfully completed an internship with

THINKLANCE

in

WEB DEVELOPMENT

from

[redacted]

Besides showing high comprehension capacity, managing assignment with the utmost expertise and exhibiting maximum efficiency, he/she has also maintained an outstanding professional demeanor and showed excellent moral character throughout the internship period.

SYED QAYYUM
Mentor

ATTESTED

PRINCIPAL
Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

[illegible]

INTERNSHIP AT VURAM

AME: HARIPRIYA M

OLL NO: 19BIT4034

OMAIN: APPIAN DEVELOPER

I am currently a Trainee , where I joined on January 1st 2023. This internship program is ongoing nd is focused on developing skills in the Appian domain.

These skills are essential in building applications and workflows rapidly with a low- code automation atform. Low-code generally refers to applications that use a simple interface to develop code – so, rather an having to write the code yourself, you can specify the outcome you want and the application will create

As a Trainee, I am learning how to build applications using Appian(low-code platform), building pplications, and it is essential in developing scalable and secure applications.

ppian is packed with capabilities such as:

- Business process automation
- Workflow Management
- Chatbots and virtual assistants
- Automation

Finally, a wide range of Windows applications can be developed in Appian since Windows APIs are ompatible with it. Since Appian is a low code platform it enables the developers to create applications without xtensive coding languages such as JAVA.

Overall, my experience at VURAM has been invaluable in developing my skills in low code platform which consumes less time to build an application. I look forward to continuing to learn and grow as a developer n this platform and applying the skills I have acquired in my future career.

Hariprigal M
Signature of Student

Signature of Guide

Signature of HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
Thalavapalayam, Karur

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M Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

ThinkLance

CERTIFICATE
OF INTERNSHIP

THIS IS TO CERTIFY THAT

PUGALENDHI T

has successfully completed an internship with

THINKLANCE

in

WEB DEVELOPMENT

from

13/07/2022 - 05/08/2022

Besides showing high comprehension capacity, managing assignments with the utmost expertise and exhibiting maximum efficiency, he/she has also maintained an outstanding professional demeanor and showed excellent mord character throughout the internship period.

SYED QAYYUM
Mentor

ATTESTED
PRINCIPAL
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP AT TATA CONSULTANCY SERVICES

NAME: GOPI R

ROLL NO:19BIT4026

DOMAIN: WEB BASED AUTOMATION USING RPA

I joined tata consultancy services at 23-01-2023. They organized a inauguration program and explained about the do's and don'ts of company. After that I was send my personal proof like Aadhar,Resume and Internship offer letter to Human Resources team.

Then they provided employee number, TCS email address and they assigned one mentor to monitor my work process and solve my doubts about internship. After that they gave ultimatix portal login details.

In the ultimatix portal I completed some mandatory course like Information security awareness, Safety first, Occupational health and safety policy, Environmental policy, Data privacy WBT, Corruption policy, Basic IP Awareness, Security awareness-quiz, Anti bribery and corruption policy,Awareness and Allegiance, POSH (Prevention of sexual harassment).

My domain is web based automation using RPA (robotic process automation). RPA mean the Web automation is the concept of leveraging automation tools and software robots to automate repetitive processes and tasks, like filling out lengthy forms or scraping content from web pages. The key to automating these repetitive tasks is the use of software robots, specifically RPA (robotic process automation).

Then i am allocated to project. My project allocation date from 20-02-2023 to 20-03-2023.During that time my mentor gave me one project. That time my mentor always communicates with me and solvedmy all project doubts.

After that i am started my project 01-03-2023. Then i completed my project. The project title is Student details management. This is web based application. In this project i am using HTML (Hypertext markup language), CSS (Cascading style sheets) and JavaScript languages and this is a local storage based project. I took 15 days to completed this project From 01-03-2023 to 15-03-2023. I am used Visual Studio code platform to run this project. During project i learn more interior concepts in JavaScript , DBMS (Database management system) and RPA.

Then I present my project to my mentor and lead. Finally my internship ends at 20-03-2023.

Signature of Student

Signature of Guide

Signature of HOD

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Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technol
M. Kumarasamy College of Enginee
(Autonomous)
Thalavapalayam · Karur

INTERNSHIP AT NCR CORPORATION INDIA PVT LTD

NAME : HARI PRASANTH S

ROLL NO : 19BIT4032

DOMAIN : HARDWARE

I joined NCR at 13th march 2023. They organized a inauguration program and explained about the do's and don't's of company. Documents were verified and some fun games were happened after lunch then received goodies for us.

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After the training feedback review were conducted and the project was assigned individually in ATM assemble and software testing. The team allocated supervisor to check the flow of work in MIDAS software and set the users to accomplish the work. Then I present my project to my supervisor and lead and got rewards of my work.

Signature of Guide

Signature of HoD

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Thalavapalayam Karur-639113

Head of the Department

Department of Information Technology

M. Kumarasamy College of Engineering

(Autonomous)

Thalavapalayam - Karur.

INTERNSHIP REPORT

INTERNSHIP AT MALLOW TECHNOLOGIES

NAME : PREMKUMAR C

ROLL NO : 19BIT4071

DOMAIN : DEVOPS

I have joined internship during the month of January 23rd and the internship program is scheduled for 12-16 weeks, where I have completed the modules based on the schedule provided in the Task Sheet and the learning and hands-on practice are on Linux.

I need to Login with Microsoft Office Application with Login credential by this I can access my Task Sheet to access the Flexi internship learning content for Devops.

There I had an opportunity to connect with the trainers, who would help clarify our queries throughout this program.

I would also be assigned a Mentor, who will be there to guide myself throughout this internship to help in the completion of this program.

Below are the skills covered in this program:

Linux

Shell Script

Monit

Supervisor

Networking

Web Servers

By the skills I have learned here, have helped me to Learned about Linux and I also have gained more knowledge through this internship.

28/3/23

Signature of Guide

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PRINCIPAL

Signature of HOD

Head of the Departm...
Department of Information Technology,
K.Kumaraswamy College of Engineering
(Autonomous)

INTERNSHIP REPORT

INTERNSHIP AT MALLOW TECHNOLOGIES

NAME : RAMKUMAR A

ROLL NO : 19BIT4079

DOMAIN : RUBY ON RAILS

I have joined internship during the month of January 23rd and the internship program is scheduled for 12-16 weeks, where I have completed the modules based on the schedule provided in the Task Sheet and the learning and hands-on practice are on Ruby on Rails.

I need to Login with Microsoft Office Application with Login credential by this I can access my Task Sheet to access the internship learning content for Ruby on Rails.

There I had an opportunity to connect with the trainers, who would help clarify our queries throughout this program.

I would also be assigned a Mentor, who will be there to guide myself throughout this internship to help in the completion of this program.

Below are the skills covered in this program:

Ruby

Ruby on Rails

HTML

CSS

JS

AJAX

JQUERY

By the skills I have learned here, have helped me to Learned about Linux and I also have gained more knowledge through this internship.

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Thalavapalayam, Karur-639113

Signature of HOD
Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)

UNISTAM
WE FULFILL YOUR DREAMS

Corporate Office – INDIA
6/716-a Paramathi Road
Namakkal-1, Tamil Nadu, India
Contact No: (+91) 04286 299383
Web: www.unistam.in | Email: info@unistam.co.in

Date: 25/01/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that (Mr/Ms) Hariprasath K (Reg No:19BIT4033) student of B.Tech (Major in Information Technology) from M.Kumarasamy College of Engineering, Karur has completed his/her internship in our company during the period from 27/12/2022 to 12/01/2023 as a Web Analyst.During the period of his/her internship program with us,he/she had been exposed to different processes and was found diligent,hardworking, and inquisitive.

Best Wishes
For Unistam Group
Srikanth Reddy
Human Resources Team

ATTESTED
PRINCIPAL,
M.Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT UNISTAM TECHNOLOGY

NAME : K HARIPRASATH

ROLL NO : 19BIT4033

DOMAIN : WEB ANALYST

I have joined internship during the month of December 27th and the internship program is scheduled for 3 weeks, where I have completed the modules based on the schedule provided in the videos and hands-on practice on web development.

I would also be assigned a Mentor, who will be there to guide myself throughout this internship to help in the completion of this program.

Below are the skills covered in this program:

HTML

CSS

PHP

SQL

PYTHON

By the skills I have learned here, have helped me to Learned about web development and I also have gained more knowledge through this internship.

Signature of Guide

Signature of HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

ATTESTED

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M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

: RAJESHWARI S

NO: 19BIT401

IN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This hip program is ongoing and is focused on developing skills in the Java domain, specifically in web tion development.

During the program, I have gained hands-on experience in several programming languages and logies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and e.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is ular language for building enterprise applications, and it is essential in developing scalable and secure cations.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of pages. JavaScript has helped me add interactivity and functionality to web pages, while PHP has been umental in server-side scripting.

SQL is a critical language in database management, and I have learned how to use it to store and ve data from databases. I have also gained knowledge in cloud computing, which has helped me stand how to build and deploy web applications in cloud environments.

Finally, Python is a versatile language that is used in a wide range of applications, including data sis and machine learning. I have gained knowledge in this language, which will help me in my future r.

Overall, my experience at LTIMindtree has been invaluable in developing my skills in web cation development. I look forward to continuing to learn and grow as a developer in this program and ring the skills I have acquired in my future career.

RJLis

Signature of Student

Signature of Guide

Signature of HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)

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PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

: PAVITHRA G

NO: 19BIT4066

AIN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2022. This hip program is ongoing and is focused on developing skills in the Java domain, specifically in web tion development.

During the program, I have gained hands-on experience in several programming languages and logies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and secure.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is ılar language for building enterprise applications, and it is essential in developing scalable and secure ations.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of web JavaScript has helped me add interactivity and functionality to web pages, while PHP has been nental in server-side scripting.

SQL is a critical language in database management, and I have learned how to use it to store and e data from databases. I have also gained knowledge in cloud computing, which has helped me tand how to build and deploy web applications in cloud environments.

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Overall, my experience at LTIMindtree has been invaluable in developing my skills in web application opment. I look forward to continuing to learn and grow as a developer in this program and applying the I have acquired in my future career.

Signature of Student

28/3/22.

Signature of Guide

Signature of HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

ATTESTED

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M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

INTERNSHIP REPORT

INTERNSHIP AT DOMAIN HOSTLY

NAME: NIVETHA B

ROLL NO:19BIT4065

DOMAIN: CYBERSECURITY

I Joined Domain hostly at 28th december 2022. I learned about spring boot and IOCs. Spring Boot is a popular framework for building web applications in the Java programming language. It is built on top of the Spring framework and provides a set of pre-configured components that make it easy to develop production-ready applications quickly. Some of the key features of Spring Boot include:

Auto-configuration: Spring Boot includes a set of pre-configured components that can be easily customized to fit your specific needs. It automatically configures most of the components based on the dependencies you include in your project.

Embedded web server: Spring Boot includes an embedded web server, which makes it easy to deploy and run web applications without having to configure an external web server.

Actuator: Spring Boot provides an actuator that exposes metrics and monitoring information about your application, making it easier to monitor and manage your application in production.

Easy testing: Spring Boot provides a set of utilities for testing your application, including support for unit testing and integration testing.

I learn some of the common tools and techniques used to identify and analyze IOCs,such as intrusion detection systems (IDS), Security Information and Event Management (SIEM) systems, and endpoint detection and response (EDR) solutions. These tools use a combination of signature-based and behavior-based analysis to identify potential IOCs and alert security analysts to potential security threats.

I learned that IOCs are an important component of threat intelligence, and that sharing IOCs with other organizations can help to prevent cyber attacks. Organizations can share IOCs through various channels, such as threat intelligence platforms, email lists, and social media groups.

Finally my internship ends at 12th January 2023.

28/3/23.

Signature of Guide

Dr. S. Preetha.

Signature of HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

ATTESTED

PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

ThinkLance

CERTIFICATE
OF INTERNSHIP

THIS IS TO CERTIFY THAT

KAVIN N

has successfully completed an internship with

THINKLANCE

in

WEB DEVELOPMENT

from

1307/2022 - 0508/2022

Besides showing high comprehension capacity, managing assignments with the utmost expertise and exhibiting maximum efficiency, he/she has also maintained an outstanding professional demence and showed excellent mord character throughout the internship period.

SYED QAYYUM
Mentor

ATTESTED
PRINCIPAL

INTERNSHIP REPORT

INTERNSHIP AT JP Morgan Chase & Co

NAME : Gokul K M

ROLL NO : 19BIT4023

DOMAIN : Cybersecurity

I am writing this report to summarize my experience during the Cybersecurity Virtual Experience Program at JP Morgan Chase & Co. The program was designed to give participants a comprehensive understanding of cybersecurity in the financial sector, with a focus on identifying and mitigating cyber threats. The program was held from 11th March 2023 to 27th March 2023 and lasted for 15 days.

The program was divided into various modules, each covering different aspects of cybersecurity. The modules included Introduction to Cybersecurity, Cybersecurity Threats, Risk Management, Security Operations, Security Architecture, and Cybersecurity Regulations. Each module consisted of video lectures, interactive quizzes, and practical exercises to reinforce the concepts taught.

Skills Acquired:

Threat Analysis

Risk Management

Security Operations

Security Architecture

The program was well-structured, and the modules were informative and engaging. I am confident that the skills and knowledge I have acquired during this program will be valuable in my future career endeavors. I would like to express my gratitude to JP Morgan Chase & Co. for providing me with this opportunity to learn and grow in the field of cybersecurity.

Signature of Guide

ATTESTED

PRINCIPAL,
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Signature of HOD

Head of the Department
Department of Information Technolo
M. Kumarasamy College of Enginee
(Autonomous)
Thalavapalayam

INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

IE: NACHIAPPAN. P

L NO: 19BIT4061

IAIN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This nship program is ongoing and is focused on developing skills in the Java domain, specifically in web ication development.

During the program, I have gained hands-on experience in several programming languages and nologies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and secure.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is opular language for building enterprise applications, and it is essential in developing scalable and secure plications.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of web ges. JavaScript has helped me add interactivity and functionality to web pages, while PHP has been trumental in server-side scripting.

SQL is a critical language in database management, and I have learned how to use it to store and rieve data from databases. I have also gained knowledge in cloud computing, which has helped me derstand how to build and deploy web applications in cloud environments.

Finally, Python is a versatile language that is used in a wide range of applications, including data alysis and machine learning. I have gained knowledge in this language, which will help me in my future reer.

Overall, my experience at LTIMindtree has been invaluable in developing my skills in web application velopment. I look forward to continuing to learn and grow as a developer in this program and applying the ills I have acquired in my future career.

Signature of Student

Signature of Guide

Signature of HOD

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PRINCIPAL

M. Kumarasamy College of Engineering

Thalavapalayam, Karur-639113

Head of the Department

Department of Information Technology

M. Kumarasamy College of Engineering

(Autonomous)

Thalavapalayam, Karur

INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

NAME: R.J. Jandevan

ROLL NO: 19BIT0062

DOMAIN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This internship program is ongoing and is focused on developing skills in the Java domain, specifically in web application development.

During the program, I have gained hands-on experience in several programming languages and technologies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and secure.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is a popular language for building enterprise applications, and it is essential in developing scalable and secure applications.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of web pages. JavaScript has helped me add interactivity and functionality to web pages, while PHP has been instrumental in server-side scripting.

SQL is a critical language in database management, and I have learned how to use it to store and retrieve data from databases. I have also gained knowledge in cloud computing, which has helped me understand how to build and deploy web applications in cloud environments.

Finally, Python is a versatile language that is used in a wide range of applications, including data analysis and machine learning. I have gained knowledge in this language, which will help me in my future career.

Overall, my experience at LTIMindtree has been invaluable in developing my skills in web application development. I look forward to continuing to learn and grow as a developer in this program and applying the skills I have acquired in my future career.

Signature of Student

Signature of Guide

Signature of HOD

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M. Kumarasamy College of Engineering

Thalavapalayam, Karur-639113

Head of the Department

Department of Information Technology

M. Kumarasamy College of Engineering

(Autonomous)

Thalavapalayam, Karur

INGAGE

Ingage Technologies Private Ltd.
[illegible]

Internship Letter

Date: 26.10.2022

Vishnu Vardhan H,

Reg No: 20BIT4106,

No.99, Vadivel Nagar, 2nd cross,

LNS post, Karur 639002

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Vishnu,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
2. Internship Period will be from 28.10.2022 to 28.11.2022.
3. Your timings will be from 10.00 AM to 7.00 PM, Monday to Friday.
4. During the Internship Period you will be reporting to Ingage's Head Office or will be deployed in client's location at the discretion of the company.
5. Travel & Accommodation expenses will be taken care of by the company for interns deployed at client locations.
6. You will be paid a monthly stipend of ₹ 20,000 during the internship period.
7. Internship period may be extended by mutual interest in writing.

for, Ingage Technologies Private Limited

Authorised Signatory

ATTESTED
PRINCIPAL,
M.Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

InGage Technologies Pvt Ltd
Registered Office: No 9, 2nd Floor, Sambantham Gardens, Taramani Link Road, Velachery, Chennai 600 042 INDIA
[illegible]

ingage

Ingage Technologies Private Ltd.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.myingage.com
Phone +91-98408 34132
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Vishnu Vardhan H,

Reg No: 20BIT4109,

No.99, Vadivel Nagar, 2nd cross,

LNS post, Karur-639002.

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Vishnu,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

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1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
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7. Internship period may be extended by mutual interest in writing.

for, Ingage Technologies Private Limited

Authorised Signatory

ATTESTED
PRINCIPAL,
Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

ingage

Ingage Technologies Private Ltd.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.myingage.com
Phone: +91-98408 34132
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Sachin T R

Reg No: 20BIT4074

No: 71/30, Bazaar Street,

Thammampatti, Salem – 636113.

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Sachin,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
2. Internship Period will be from 28.10.2022 to 28.11.2022.
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for, Ingage Technologies Private Limited

Authorised Signatory

ATTESTED
PRINCIPAL,
Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

Ingage Technologies Private Ltd.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.myingage.com
Phone +91-98408 34132
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Vijay Adithan M

Reg No: 20BIT4104

No.9, Ricemill Street, Maruthandakurichi,

Tiruchirappalli - 620102.

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Vijay,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
2. Internship Period will be from 28.10.2022 to 28.11.2022.
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for, Ingage Technologies Private Limited

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PRINCIPAL,
Kumaraswamy College of Engineering

Authorised Signatory

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Ingage Technologies Private Ltd.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.myingage.com
Phone: +91-98408 34132
GSTN Number: 33AACO7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Nishanth J

Reg No: 20BIT4064

No: 9/320, State Bank Colony,

China Andan Kovil Road, Karur – 639001

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Nishanth,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

The terms of your internship with the company will be as follows:

1. You will work as an intern under the guidance of **Mr. Sriharsha – AVP Solutions.**
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7. Internship period may be extended by mutual interest in writing.

for, Ingage Technologies Private Limited

ATTESTED
PRINCIPAL
Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

Authorised Signatory

Ingage Technologies Private Ltd.,
9, Sambandam Garden, 2nd Floor,
Taramani Link Road, Velachery, Chennai 600042
www.in.ingage.com
Phone: +91-98408 34112
GSTN Number: 33AACCI7183F1ZN
TAN Number: CHEI07291E

Internship Letter

Date: 26.10.2022

Nishanth J

Reg No: 208IT4064

No: 9/320, State Bank Colony,

China Andan Kovil Road, Karur – 639001

Sub: Your Internship with Ingage technologies Pvt Ltd.

Dear Nishanth,

We are pleased to inform you that your engagement as an intern in Ingage Technologies Private Limited has been approved.

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for, Ingage Technologies Private Limited

ATTESTED
PRINCIPAL
Kumaraswamy College of Engineering
Thalavapalayam, Karur-639113

Authorised Signatory

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

VINOTH KUMAR A

NO: 19BIT4124

IN: JAVA, REACT

I am delighted to have joined on 14 FEB 2023 and completed my Full Stack Developer Internship n offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills Java and React technologies.

During the program, I had access to the Examly platform, where I was able to access learning materials nds-on practice labs. The program had a variety of modules, each one designed to develop my tanding and practical experience with the following technologies and skills:

- Java: One of the most widely used programming languages, Java is the foundation of many applications and systems. During the program, I learned the basics of Java programming and how to use Java for web development.
- React: A popular JavaScript library used for building user interfaces, react is used in many web applications. The internship helped me to develop my React skills and build interactive web applications.
- Maven: An open-source tool used for project management and build automation; Maven is used to manage Java-based projects. I learned how to use Maven to manage dependencies, build and test Java applications.
- Unit testing: The internship program included an emphasis on testing, with a focus on unit testing. I learned how to write and execute unit tests to ensure that the applications I developed were working as expected.
- UML: Unified Modelling Language (UML) is a visual language used to represent software designs. During the program, I learned how to create UML diagrams to model and design software systems.
- HTML and CSS: These two languages are the foundation of web development. I learned how to use HTML to structure web pages and CSS to style them.
- JavaScript: Another popular programming language, JavaScript is used to create interactive web applications. During the program, I learned how to use JavaScript to build dynamic web pages.

Overall, the Virtusa Full Stack Developer Internship program was an excellent learning experience. It ovided me with a solid foundation in the technologies and skills needed to build web applications. I am nteful for the opportunity to have participated in this program and look forward to applying the skills I have quired in my future career as a Full Stack Developer.

Signature of Student **Signature of Guide** **Signature of HOD**

ATTESTED
PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur

INTERNSHIP REPORT

INTERNSHIP AT VIRTUSA

E: SUGANTH V

NO: 19BIT4105

AIN: JAVA, REACT

I am delighted to have joined on 14 FEB 2023 and completed my Full Stack Developer Internship m offered by Virtusa. The internship was an intensive 8-week program that focused on developing skills h Java and React technologies.

During the program, I had access to the Examly platform, where I was able to access learning materials ands-on practice labs. The program had a variety of modules, each one designed to develop my standing and practical experience with the following technologies and skills:

- Java: One of the most widely used programming languages, Java is the foundation of many applications and systems. During the program, I learned the basics of Java programming and how to use Java for web development.
- React: A popular JavaScript library used for building user interfaces, react is used in many web applications. The internship helped me to develop my React skills and build interactive web applications.
- Maven: An open-source tool used for project management and build automation; Maven is used to manage Java-based projects. I learned how to use Maven to manage dependencies, build and test Java applications.
- Unit testing: The internship program included an emphasis on testing, with a focus on unit testing. I learned how to write and execute unit tests to ensure that the applications I developed were working as expected.
- UML: Unified Modelling Language (UML) is a visual language used to represent software designs. During the program, I learned how to create UML diagrams to model and design software systems.
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Overall, the Virtusa Full Stack Developer Internship program was an excellent learning experience. It ovided me with a solid foundation in the technologies and skills needed to build web applications. I am nteful for the opportunity to have participated in this program and look forward to applying the skills I have quired in my future career as a Full Stack Developer.

V. Suganth

Signature of Student

Signature of Guide

Signature of HOD

Head of the Department
Department of Information Technolog
M. Kumarasamy College of Engineerin
(Autonomous)
Thalavapalayam - Karur.

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PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur - 639113

Zoho Corporation Private Limited
Plot 140, 151, Estancia IT Park, Vallancheri,
Chengalpattu District, Tamilnadu, 603 202.
Ph: +91 - 44 - 6744 7070
www.zohocorp.com
SEZ Unit

INTERNSHIP CERTIFICATE

This is to certify that Mr/Ms. **PRAVEEN KUMAR S - SI-2392** has undergone his/her internship training in **Zoho Corporation Private Limited** , from 15-Jul-2022 to 15-Aug-2022 . During this period, his/her performance and conduct were found to be good.

Yours Sincerely,

For Zoho Corporation Private Limited

Saajudeen S

Saajudeen S

Associate HR

ATTESTED

PRINCIPAL,
Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Date of issue: 30 Aug 2022

cognizant

10-Mar-2023

Candidate ID: 24662988

Vinothkumar L
B.Tech Information Technology
M Kumarasamy College of Engineering, Karur

Dear **Vinothkumar L**,

Further to our Letter of Intent / Offer for the position of Programmer Analyst Trainee / Programmer Analyst aligned to the hiring category and in response to your subsequent confirmation for Internship Program with us, we are pleased to offer you an Internship on premises with us for ***a period of 3 to 6 months.*** Your Internship onboarding will be scheduled based on your availability factoring your college exam schedule and our business requirements.

During this period, you will be provided with a stipend of **INR 15,000** per month equated to the planned duration of the Internship curriculum and will be paid only subject to successful completion of milestones as defined in the curriculum prior to the monthly stipend processing window for a given month based on your performance and attendance.

Though Cognizant Internship is a pre-requisite skill and capability development program, it does not guarantee employment and there is no employer – employee relationship during the course of this internship program. However, the successful completion of internship will form a critical part of your eligibility for employment with Cognizant if an opportunity arises in future.

You will undergo a learning curriculum as per the learning track assigned to you. The learning path will include in-depth sessions, hands on exercise and project work. There will also be series of webinars, quizzes, SME interactions, mentor connects, code challenges, assessments etc. to accelerate your learning. The outcome during Internship would be monitored through formal evaluations.

Prior to joining on the rolls of Cognizant, you must have successfully completed the prescribed Internship program. In the event of unsatisfactory Internship, Cognizant reserves rights at its sole discretion to revoke its employment offer.

Please also note that:

- The Internship timings would be for 10 hours per day from Monday through Friday aligned to the working timings followed in Cognizant which based on the need could also be operated on a shift model. Attendance is mandatory on all the days to stay active in the Internship Program. The Intern Offer would be terminated if the mandatory requirement of minimum 90% attendance at office is not met in a month.

- Interns are covered under Cognizant's calendar holidays of the respective location of internship, and you would need to adhere with minimum attendance requirements. Prior approvals are must towards any unavoidable leave or break requests during the program and internship would be terminated if leaves are availed without prior approvals.

- You would be required to ensure timely completion and submission of assignments, project work and preparation required prior to the sessions failing which your internship would be terminated.

- The Technical skills track mapped could change at the start or mid-way or even later during the program depending on business demand changes and you would be required to be flexible for this change failing which your internship would be terminated.

- After successful completion of your Internship if there is a business demand which expects you to get skilled on a different skill, you would be expected to get skilled in that demand failing which your Full Time Offer would be cancelled / withdrawn.

ATTESTED
PRINCIPAL
M.Kumarasamy College of Engineering
Thalavapalayam, Karur - 639 113

Regd Office: 115/535, Old Mahabalipuram Road, Okkiam Th

INTERNSHIP REPORT

INTERNSHIP AT COGNIZANT TECHNOLOGY SOLUTIONS

NAME : VINOTHKUMAR L

ROLL NO : 19BIT4125

DOMAIN : ANGULAR, SPRING BOOT

I have joined flexi internship during the month of November 22 nd and have completed on the month of February 22 nd.

The internship program is scheduled for 10-12 weeks, where I have completed the modules based on the scheduled provided in the handbook and the learning and hands-on practice labs are available on the Tekstac Platform.

There I need to login to the Tekstac platform, using the same login credential(User & Password used in the Deep skilling) to access the Flexi internship learning content for Full Stack Engineer- Java (Angular).

There I have an opportunity to connect with the business SMEs and Trainers, who would help clarify our queries throughout this program.

I would also be assigned a Cognizant GenC program Coach, who will be there to guide myself throughout this Flexi internship & help in successful completion of this program.

Below are the skills covered in this program:

Angular

Spring Boot

By the skills, I have equipped here, have helped me to create a web application and also have gained more knowledge with this internship.

Besides, I have done many hands-on practice and also have completed many projects regarding this.

ATTESTED

PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Signature of Guide

Signature of HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.

TRAINING TRAINS

DomainHostly.COM

Certificate

Certificate No: 2403202302

This is to certify that **Ms. RENUKA P** Reg No: (19BIT4082) has successfully completed an internship with TRAINING TRAINS as an Junior Web Analyst in the Marketing department from [28/12/2022] to [12/01/2023].

They have worked on the Canteen Management System Project under the supervision and guidance of **Mr.Boopathikumar** During the internship, she has gained several learnings and developed considerable skills.

Besides showing high comprehension capacity managing assignments with the utmost expertise, and exhibiting maximal efficiency, she has also maintained an outstanding professional demeanor and showcased excellent moral character throughout the internship period.

I hereby certify her overall work as excellent to the best of my knowledge.

Wishing her the best of luck in her future endeavors.

For DOMAINHOSTIY.COM

Authorized Signatory

ATTESTED

PRINCIPAL

Kumaraswamy College of Engineering

Training Trains Software Inc

Contact:+91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com , www.domainhostly.com

TRAINING TRAINS

DomainHostly.COM

Certificate

Certificate No: 2403202311

s to certify that **Ms. ROSHNI P** Reg No: (19BIT4085) has successfully completed an ship with TRAINING TRAINS as an Junior Web Analyst in the Marketing ment from [28/12/2022] to [12/01/2023].

have worked on the Canteen Management System Project under the supervision and ce of **Mr.Boopathikumar** During the internship, she has gained several learnings veloped considerable skills.

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y certify her overall work as excellent to the best of my knowledge.

g her the best of luck in her future endeavors.

For DOMAINHOSTIY.COM

Authorized Signatory

ATTESTED

PRINCIPAL

Kumarasamy College of Engineering

TRAINING TRAINS

mainHostly.COM

Certificate

Certificate No: 2403202310

o certify that **Mr. MURALIDHARAN R** Reg No: (19BIT4060) has successfully ed an internship with TRAINING TRAINS as an Junior Web Analyst in the ng department from [28/12/2022] to [12/01/2023].

ve worked on the Canteen Management System Project under the supervision and e of **Mr.Boopathikumar** During the internship, he has gained several learnings and ed considerable skills.

showing high comprehension capacity managing assignments with the utmost e, and exhibiting maximal efficiency, he has also maintained an outstanding onal demeanor and showcased excellent moral character throughout the internship

certify his overall work as excellent to the best of my knowledge.

him the best of luck in his future endeavors.

For DOMAINHOSTIY.COM

Authorized Signatory

ATTESTED

PRINCIPAL

Kumarasamy College of Engineering

Training Trains Software Inc

Contact:+91 9698548633, 9498860729. Email: ceo@trainingtrains.com

Website: www.trainingtrains.com , www.domainhostly.com

INTERNSHIP REPORT

INTERNSHIP AT KSHIN TECH PRIVATE LIMITED

ME: MRUDHHULA V S

LL NO: 19BIT4058

MAIN: MACHINE LEARNING

I am thrilled to have completed my internship program as a backend developer with KSHIN TECH VATE LIMITED in the Machine Learning domain. The program began on July 14, 2022, and concluded lovember 22, 2022.

During the program, I worked on building a deep learning model for iris recognition, which was a lenging yet rewarding experience. My role in the project was to develop the backend of the application, ch included creating an efficient and scalable system to process large amounts of data. I also had the ortunity to collaborate with other team members, including data scientists and frontend developers, to ver a robust and user-friendly product.

In the project, I gained valuable experience in several machine learning techniques such as computer on, time series analysis, and LSTM models. I also learned about the GPT model, which improved the uracy of the model. Additionally, I gained expertise in using Linux commands, the ffmpeg library, and the on Nano developer kit (Nvidia) to train and deploy deep learning models.

Below is a list of the skills that I acquired during the internship:

- Computer Vision
- Time Series Analysis
- LSTM Models
- GPT Model
- Linux Commands
- FFMPEG Library
- Jetson Nano Developer Kit (Nvidia)

Throughout the internship, I had the opportunity to work with experienced professionals who provided uable guidance and support. I learned about the importance of teamwork, communication, and problem-ving in a professional setting. Furthermore, the internship helped me to develop my critical thinking and lytical skills, which are essential for a career in machine learning.

In conclusion, I am grateful for the opportunity to have participated in the KSHIN TECH PRIVATE MITED internship program. The program has equipped me with valuable skills and practical experience in chine learning, and I look forward to applying these skills to future projects.

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Mrudhula V S

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INTERNSHIP REPORT

INTERNSHIP AT KSHIN TECH PRIVATE LIMITED

AME: LAKSHANA S

OLL NO: 19BIT4051

OMAIN: WEB DEVELOPMENT

I had the privilege of completing my Front-End Developer internship with KSHIN Tech Private mited. The internship program started on August 1st, 2022, and ended on November 22nd, 2022. During s period, I worked on the Rotic project as an automation tester, which gave me valuable practical experience web development.

The internship program focused on developing skills in several web development technologies and ols, including:

- HTML
- CSS
- Bootstrap
- Spring Boot
- JavaScript
- PHP
- SQL

These skills were essential in completing the project, and I was able to develop a solid understanding each of these technologies.

As a Front End Developer, I was tasked with creating visually appealing and user-friendly web pages. earned how to use HTML and CSS to create the structure and style of web pages, respectively. Bootstrap lped me create responsive designs that could be accessed across different devices.

Spring Boot, a popular Java framework, was essential in developing web applications. I was able to e Spring Boot to develop web services and APIs that could be accessed by the front end. Additionally, I rned how to use JavaScript to add interactivity to web pages and PHP for server-side scripting.

SQL is a critical language in database management, and I learned how to use it to store and retrieve a from databases. This skill was essential in the Rotic project, where I was responsible for automating ting, which required a strong understanding of SQL.

Overall, the KSHIN Tech Private Limited Front End Developer internship program was a valuable rning experience that helped me develop essential skills in web development. I am grateful for the portunity to have participated in this program and look forward to applying the skills I have acquired in my ure career.

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INTERNSHIP REPORT

INTERNSHIP AT ZOHO

ME: S Jagadeesh

LL NO: 9BT74038

MAIN: JAVA DEVELOPER

I am currently a Graduate Trainee at ZOHO, where I joined on July15st, 2022. This internship ram is ongoing and is focused on developing skills in the Java domain, specifically in web application lopment.

During the program, I have gained hands-on experience in several programming languages and nologies, including:

- Ember js
- Tomcat
- Java
- Java Native Interface (JNI)
- Event Viewer
- Windows programming in C++
- Postgresql
- Azure

These skills are essential in developing modern web applications that are scalable, reliable, and re.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is pular language for building enterprise applications, and it is essential in developing scalable and secure cations.

In addition to Java, I have learned how to use Ember js to create the structure and style of web pages. s helped me add interactivity and functionality to web pages.

Postgresql is a critical language in database management, and I have learned how to use it to store etrieve data from databases. I have also gained knowledge in cloud computing, which has helped me rstand how to build and deploy web applications in cloud environments.

Finally, A wide range of Windows applications can be developed in C++ since Windows APIs are patible with it. Visual Studio provides as a great editor for developing the Windows applications in C++.

Overall, my experience at Zoho has been invaluable in developing my skills in web application lopment. I look forward to continuing to learn and grow as a developer in this program and applying the s I have acquired in my future career.

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M. Kumarasamy College of Engg

INTERNSHIP REPORT

INTERNSHIP AT DOMAIN HOSTLY

NAME: VINESH MARIA ANTO A

ROLL NO 19BIT4122

DOMAIN: WEB DEVELOPMENT

This report presents the details of my web development internship experience. The internship took place from 28/12/2022 to 12/01/2023, and it was held at TRAINING TRAINS. During this period, I worked on various web development projects, gained practical experience, and learned new skills in web development.

Canteen Management System: This project involved creating a website for a local business. My responsibilities included designing the website's layout, creating web pages, and adding features such as contact forms and image sliders. During my internship, I gained valuable skills and knowledge in web development, including:

HTML and CSS: I learned how to create and style web pages using HTML and CSS, including using CSS frameworks such as Bootstrap.

JavaScript: I learned how to write and debug JavaScript code to add interactivity and functionality to web applications.

PHP: I gained knowledge of PHP and used it to create dynamic web pages and web applications.

Responsive Design: I learned how to create websites that work well on desktop and mobile devices using responsive design techniques.

MySQL: I learned how to use SQL using oracle for managing database and also created database for canteen management.

My web development internship experience was a great learning opportunity. I gained practical experience, learned new skills, and worked on interesting web development projects. I believe that the skills and knowledge gained during the internship will be valuable in my future career as a web developer.

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INTERNSHIP REPORT

INTERNSHIP AT BLUEBOTTLE SOFTWARE SOLUTIONS

E: KARTHIKEYAN P

NO: 19BIT404AL

N: WEB DEVELOPER

am currently a Graduate Trainee at BlueBottle Software Solutions, where I joined on FEB23th. his internship program is ongoing and is focused on developing skills in the Java domain. lly in web application development.

uring the program, I have gained hands-on experience in several programming languages and ies, including:

- React JS
- Angular JS
- JAVA

ese skills are essential in developing modern web applications that are scalable, reliable, and

a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is anguage for building enterprise applications, and it is essential in developing scalable and secure s.

ddition to Java, I have learned how to use React JS to create the structure and style of web s helped me add interactivity and functionality to web pages.

ular JS is an another frontend framework which has helped me to develope the webpages . I have also gained knowledge in cloud computing, which has helped me understand how to eploy web applications in cloud environments.Visual Studio code provides as a great editor for he Webpages in JSX.

all, my experience at Bluebottle Software Solutions has been invaluable in developing my skills fication development. I look forward to continuing to learn and grow as a developer in this applying the skills I have acquired in my future career.

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INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

VIJAYA PRATHA E

D: 19BIT4120

S: JAVA DEVELOPER

am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This program is ongoing and is focused on developing skills in the Java domain, specifically in web n development.

uring the program, I have gained hands-on experience in several programming languages and ies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

hese skills are essential in developing modern web applications that are scalable, reliable, and

s a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is language for building enterprise applications, and it is essential in developing scalable and secure ons.

addition to Java, I have learned how to use HTML and CSS to create the structure and style of s. JavaScript has helped me add interactivity and functionality to web pages, while PHP has been ntal in server-side scripting.

QL is a critical language in database management, and I have learned how to use it to store and lata from databases. I have also gained knowledge in cloud computing, which has helped me d how to build and deploy web applications in cloud environments.

nally, Python is a versatile language that is used in a wide range of applications, including data and machine learning. I have gained knowledge in this language, which will help me in my future

verall, my experience at LTIMindtree has been invaluable in developing my skills in web on development. I look forward to continuing to learn and grow as a developer in this program and the skills I have acquired in my future career.

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INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

ME: SWEETHA S

LL NO: 19BIT4114

MAIN: JAVA DEVELOPER

I am currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This rnship program is ongoing and is focused on developing skills in the Java domain, specifically in web lication development.

During the program, I have gained hands-on experience in several programming languages and hnologies, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

These skills are essential in developing modern web applications that are scalable, reliable, and ecure.

As a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is popular language for building enterprise applications, and it is essential in developing scalable and secure pplications.

In addition to Java, I have learned how to use HTML and CSS to create the structure and style of eb pages. JavaScript has helped me add interactivity and functionality to web pages, while PHP has been strumental in server-side scripting.

SQL is a critical language in database management, and I have learned how to use it to store and trieve data from databases. I have also gained knowledge in cloud computing, which has helped me nderstand how to build and deploy web applications in cloud environments.

Finally, Python is a versatile language that is used in a wide range of applications, including data nalysis and machine learning. I have gained knowledge in this language, which will help me in my future areer.

Overall, my experience at LTIMindtree has been invaluable in developing my skills in web pplication development. I look forward to continuing to learn and grow as a developer in this program and pplying the skills I have acquired in my future career.

S. Sweetha
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R. Jayalakshmi
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INTERNSHIP REPORT

INTERNSHIP AT LTIMINDTREE

OWMIYHA N

: 19BIT4096

: JAVA DEVELOPER

n currently a Graduate Trainee at LTIMindtree, where I joined on February 21st, 2023. This program is ongoing and is focused on developing skills in the Java domain, specifically in web development.

ring the program, I have gained hands-on experience in several programming languages and es, including:

- HTML
- CSS
- Java
- JavaScript
- PHP
- SQL
- Cloud Computing
- Python

ese skills are essential in developing modern web applications that are scalable, reliable, and secure.

a Graduate Trainee, I am learning how to design and develop web applications using Java. Java is language for building enterprise applications, and it is essential in developing scalable and secure ns.

ddition to Java, I have learned how to use HTML and CSS to create the structure and style of web aScript has helped me add interactivity and functionality to web pages, while PHP has been al in server-side scripting.

L is a critical language in database management, and I have learned how to use it to store and ta from databases. I have also gained knowledge in cloud computing, which has helped me how to build and deploy web applications in cloud environments.

ally, Python is a versatile language that is used in a wide range of applications, including data nd machine learning. I have gained knowledge in this language, which will help me in my future

erall, my experience at LTIMindtree has been invaluable in developing my skills in web application ent. I look forward to continuing to learn and grow as a developer in this program and applying the ve acquired in my future career.

N. Swetha
gnature of Student

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AWS Cloud Virtual Internship

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Student ID: STU636e3d4c026761668169036

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Student ID STU62d3e34df28fa1658053453

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Student ID STU62dfeb41df47a1658841921

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Student ID STU62d8378e923731658337166

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NEAT Cell, AICTE

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Certificate ID 5d946a865b4721570fa6e456a8fd16e4
Student ID STU62cd7907ac5fd1657633031

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BOMMANESH S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

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Training Partner Manager, APAC	Chief Coordinating Officer (CCO)	Chief Technology Officer (CTO)
Palo Alto Networks	NEAT Cell, AICTE	EduSkills

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Certificate ID dc7e13fec91c89e732deb0035b254737
Student ID STU62d83614e47a01658336788

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This is to certify that

ABIRAMI L

M Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Juniper Networks Networking Virtual Internship

during December 2022 - February 2023

Supported By Juniper Networks | Cloud & Automation Academy

Sanjiv Varma
Vice President, Customer Education Services, Certification & Global Field Enablement, Juniper Networks

Shri Buddha Chandrasekhar
Chief Coordinating Officer (COO)
NEAT Cell, AICTE

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
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Certificate ID : [illegible]

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ABISHEK T

M.Kumarasamy College of Engineering (Autonomous)

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Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
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ATTESTED
PRINCIPAL
M.Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Certificate ID: 1f967938bbe6753a507edac553891a0f
Student ID: STU614f06ca1347c1632569034

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AKILA M

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Thalavapalayam, Karur-639113

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Chief Technology Officer (CTO)
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Certificate ID a52d96fabbdd761cee5e7a6721f70032
Student ID STU614ee1949b7521632559508

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Chief Technology Officer (CTO)
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Thalavapalayam, Karur-639113

Certificate ID: d28c68c81f178e0b565a28962a507b47
Student ID: STU614ee2bbf12f31632559803

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APARNA P

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Thalavapalayam, Karur-639113

Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

Certificate ID: c5a8607051877f3b1b3951ae5f9f5d50
Student ID: STU61534dbaa2996132849338

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BALAGURU K

M.Kumarasamy College of Engineering (Autonomous)

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Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
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Certificate ID: 7006f3620670e91e926bbe4652ac1686
Student ID: STU6151727c4fb381632727676

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Certificate ID: 6d2519f47b8a68341605067820ec110d
Student ID: STU614ee05936c5c1632559193

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Certificate ID: 6bb3611563a2587208dc0ccfabe2f4c2
Student ID: STU614ef7b2bd8511632565170

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Certificate ID: a2cbb493f5b2098cc05cfa5d0b7aee10
Student ID: STU636ddc007932e1668144128

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Certificate ID: 637102bb2a5504fc19e31c5e5d5108a6
Student ID: STU614f29ea36d491632578026

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Chief Technology Officer (CTO)
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Certificate ID : 11d47213b94105184b150241cca12ab7
Student ID :STU6223297514dd61646471541

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Certificate ID: 6bd7c233d0517523f35a6c80726bff38
Student ID: STU6514c2ea0b812b1632382624

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Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
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Certificate ID: 628c1369b50e5e7918e4afce24bd135d
Student ID: STU614eecb7d4b791632562359

Virtual Internship Completion Certificate

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M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

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Dr. Satya Ranjan Biswa
Chief Technology Officer
EduSkills

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M.Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Certificate ID: [illegible]

Student ID: STUD[illegible]

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प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
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M.Kumarasamy College of Engineering
Thalavapalayam, Karur-639113

Certificate ID : d28c68c81f178e0b565a28962a507b47
Student ID : STU614ee2bbf12f31632559803

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Juniper Networks Networking Virtual Internship

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Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
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Certificate ID: 3e41fbb3616f2e5591c80a65e0342792
Student ID: STU636efc3b4c32b1668217915

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Virtual Internship Completion Certificate

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DHARSHINI B

M.Kumarasamy College of Engineering (Autonomous)

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Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

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Ana Howes
Global Head of Education Services
Blue Prism

Shri Buddha Chandrasekhar
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NEAT Cell AICTE

Dr Satya Ranjan Biswal
Chief Technology Officer (CTO)
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Thalavapalayam, Karur-639113

Certificate ID: 400fa473f5332e0575004b0f9030c8333
Student ID: STU6140afbd533116325701O7

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M.Kumarasamy College of Engineering (Autonomous)

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Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
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Thalavapalayam, Karur-639113

Certificate ID: 42533eef04b65d8ce6c99871dce82715
Student ID: STU62e6b40369805165928653l

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M.Kumarasamy College of Engineering (Autonomous)

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Thalavapalayam, Karur-639113

Certificate ID bdbc53a893c8878019ebe37ce875187f
Student ID STU636dccd7762f31668140247

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Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
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M.Kumarasamy College of Engineering

Certificate ID : f69d2e43c251a39fecbe7583c43482e2
Student ID : STU614ef7d60674e1632565206

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M.Kumarasamy College of Engineering (Autonomous)

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Thalavapalayam, Karur-639113

Certificate ID: f69d2e43c251a39fecbe7583c43482e2
Student ID: STU614ef7d60674e1632565206

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Certificate ID: 0377aae32999f4a88ef6ef80c3890183
Student ID: STU61506196a1471632657814

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M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Process Mining Virtual Internship

during July - Sep 2022

Supported By celonis

J. Klingeberg

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

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Certificate ID: a4e640e19855b1f47106a59a7468abc0
Student ID: STU614c2d42eb5e01632382274

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Certificate ID: 8073a8790240a550a6b05f7d3750d17b
Student ID: STU614c2d42eb5e01632382274

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Dr. Satya Ranjan Biswal
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Certificate ID: 5bbcb1e2d16b8c03b0c6922f018973d1
Student ID: STU614f1ee21148b1632575202

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Certificate ID b8b96cca15d4a7aa71a2961ac5143094
Student ID STU61bb3f9db87581639661469

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Chief Technology Officer (CTO)
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Certificate ID: fc57bae2505abc2d82188e775204d4a9
Student ID: STU61545713734011632917267

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Chief Technology Officer (CTO)
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Certificate ID: 3b0e8b2fd8bd484c836b5ce1ace3a0fb
Student ID: STU614f2cbb0279b1632578747

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Chief Coordinating Officer (C.C.O.)
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Chief Technology Officer (C.T.O.)
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Student ID: STU614ee861e8bda1632561249

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Global Head of Education Services
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Certificate ID : 385ba3f4856281636032 7cb0a5ec9b47

Student ID : STU614ee1eebda1e1632559342

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Student ID: STU614eebda1e1632559342

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Student ID: STU61542bd929739163290620 1

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Global Head of Education Services
Blue Prism

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Certificate ID : b25ccc0466f443ab38cce09c1d9d8ce6
Student ID : STU62e6a1d34b0471659281875

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Student ID: STU62e6a1d34b0471659281875

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Student ID: STU614ee861e8bda1632561249

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Certificate ID dbf803502e04bd67112776b7591252f1
Student ID STU614f0ad2ba5c71632570066

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Student ID: STU614f069051b9b1632568976

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Certificate ID: 7df40afa945288dab83e8844b883027a
Student ID: STU636dd2a19e3df1668141729

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Certificate ID: cbe9aeb91bc2153531594ca42fe3c04f
Student ID: STU614ec2d9ac420163255164 1

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Certificate ID: 705b76d7d71e228f736e47153771917f
Student ID: STU614ee00eee4361632559118

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Certificate ID: 2c79928310297acd9934d7bd58961fb8
Student ID: STU614ee19a4cbdc1632559514

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Certificate ID : 7172f7790a21df7d90515e7d1f7865ae

Student ID : STU614f089d036f31632569501

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Certificate ID : 98fd3b5009b1fd64b4966b0df96c5459
Student ID : STU614ee49cec39f1632560284

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Chief Technology Officer (CTO)
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Certificate ID 9ac6015520582e35c7e02e1bca0daaf2
Student ID STU636dd8280e7331668143144

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Certificate ID 4394963e276e2410d52f1c00a7b0504c
Student ID STU614f11089a9911632571656

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Certificate ID 6d5e574b085063a1bb0c80ca48ebee8d
Student ID STU636dcd0ca1ba11668140300

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Thalavapalayam, Karur-639113

Certificate ID: 00046ad602efd39b1e3d5fd912e7ca9c
Student ID: STU6153da3108bab1632885297

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Certificate ID: 659a72d0b7cce05d8b73974499b6fc05
Student ID: STU636cd8c7267b11668077767

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Certificate ID: 622ec4413f5b3f54ea50c45f1b68efd7
Student ID: STU636dd576446e01668142454

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Student ID STU61545ddc9010b1632919004

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Student ID: STU614ee5a4ee0221632560548

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Certificate ID: d28c88c81f178e0b565a28962a507b47
Student ID: STU6314ee2bbf12f31632659803

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Certificate ID : 08bc97ec695ba5ffcbb37a557114aec6
Student ID : STU614edec3a9dc81632558787

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Student ID: STU614ef9d93b5791632565721

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Student ID STU614ee15ceb1091632559452

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Student ID : STU614ef1ed8541163256369 1

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Global Head of Education Services
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Student ID :STU614f28c826a4d1632577736

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Student ID :STU614f28c826a4d1632577736

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Student ID :STU614f27405e95b1632577344

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Student ID : STU614f07679acd71632569191

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Certificate ID :0d6c432518ed8a62f70c4bd1909183c3
Student ID :STU614eebf27c9dc1632562162

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Student ID :STU614eebf27c9dc1632562162

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Certificate ID :d3ca636d1fa13376d901b83000bae0bd
Student ID :STU61bb3e4a04a9f1639661130

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Certificate ID: ee5ef6f28b441a9093a00fc72c6fdb2f

Student ID: STU614f076e8c1db1632569198

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Student ID :STU614f076e8c1db1632569198

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Student ID :STU614ef1aabc51b1632563626

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Student ID :STU636cae0ea4c9a1668066830

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Student ID :STU614ef1abde6051632563627

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Student ID :STU614ec5fb305891632552443

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Certificate ID :602ba8bf606cc3d8704aa6e501525d48
Student ID :STU614f1faeb0e561632575406

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Student ID :STU614f1faeb0e561632575406

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Certificate ID :efe517c27bd448e104486d2a6134c354
Student ID :STU614efc0ebab841632566286

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Student ID :STU614ef2b0e1a271632563888

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Student ID :STU614ef2b0e1a271632563888

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Certificate ID : a945c65011632fddfd4aa4d85cd14c9a
Student ID : STU614f06f50ed611632569077

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Student ID: STU614f06f50ed611632569077

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Student ID :STU614f041ca250e1632568348

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Student ID :STU614f041ca250e1632568348

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Student ID :STU62236c7a1fbd51646488698

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Student ID :STU62beb3b012f4c1656665008

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Student ID :STU62beb3b012f4c1656665008

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Student ID :STU62beb3b012f4c1656665008

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Certificate ID :25d5def42132fea943e047e6b7e32918
Student ID :STU614edba0c8b191632557984

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Certificate ID :7a575ace6b8e7049e3e1a818a3e07417
Student ID :STU636cb118c4f571668067608

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Certificate ID :8291b5dd8c2dc074f80f677bc8dc6a91
Student ID :STU636dd234691b61668141620

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Student ID :STU614f0e17db1961632570903

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Student ID :STU614ede1b92ece1632558619

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Certificate ID [redacted]

Student ID STU[redacted]

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Student ID :STU614ef11a221f91632563482

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Student ID :STU614edcc27c3ac1632558274

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Student ID :STU614edcc27c3ac1632558274

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Student ID :STU614ebde765dcf1632550375

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Student ID :STU62bfc700a2b1b1656735468

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Certificate ID :9ed58cc26f8e9e051eddbfef53efa96b
Student ID :STU62bfc700a2b1b1656735488

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M.Kumarasamy College of Engineering (Autonomous)

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Dr. Satya Ranjan Biswal
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Certificate ID :6140048aeb65a024e80eb48afe7e98d8

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TAREESH P

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

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Celonis	NEAT Cell, AICTE	EduSkills

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Certificate ID :4c6eb14e748c1fabb8c56c0ba83f3156
Student ID :STU614ef1aabc51b1632563626

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M.Kumarasamy College of Engineering (Autonomous)

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Dr. Satya Ranjan Biswal
Chief Technology Officer (CTO)
EduSkills

Certificate ID :c89a57209d2298d91775681b427a8279
Student ID :STU614ef1aabc51b1632563626

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Certificate ID :7b69bec7de863f4725bc356d42111b8a
Student ID :STU614eedd16473e1632562641

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Certificate ID :ff4b26bd7ba0de795a93a5d050f15581
Student ID :STU614eeeb5492c21632562869

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Certificate ID :e67c22018896d543f118ef8a1a1532f5
Student ID :STU62bf014269bb21656684866

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Certificate ID :be38a83c3317293c12a04068090e4019
Student ID :STU614ee21e1d39c1632559646

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Certificate ID :d9e284229cf989db7b6c869f9f3076a5
Student ID :STU614ee21e1d39c1632559646

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Certificate ID: [redacted]

Student ID: [redacted]

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Certificate ID :03882d953c7a2716d51d9e9df382d992
Student ID :STU614efa78057801632585880

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Certificate ID :28face49e396db02b2a46bd74dd38582
Student ID :STU636cd55ada7e51668076890

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Certificate ID :23153f766726611dd65948c869a05685
Student ID :STU614eeffc45e401632563196

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Head of Academic Alliance
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Chief Technology Officer (CTO)
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Thalavapalayam, Karur-639113

Certificate ID :e8c8ea8bda3fee1a1b7ef68fc3ac0665
Student ID :STU614ee1db339491632559579

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M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

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Certificate ID :6a0c5c83c57595503ee20a07dcf2dab3
Student ID : STU614ee1db339491632559579

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Certificate ID :fbae6e7cf596a757f2e6c30ccc87be6e
Student ID :STU62bf0337d16db1656685367

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Certificate ID :4404aad74b7094cc4b2f5f7ff52be20d
Student ID :STU614c21ee5249f1632379374

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Certificate ID :e385d21205bd6e478bd9a85c9e748a3c
Student ID :STU614c21ee5249f1632379374

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Certificate ID :0a558255cf43d0582bd4f2ebf680d81c

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Certificate ID :46487427ad608cff4b5209d2e54601cc
Student ID :STU614ee13a0213f1632559418

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Certificate ID :56b33212797b2aa229bf83ca87b65d10
Student ID :STU614efdd0799f11632566736

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Certificate ID: e4f37f7b4995f408acd4c55c9c3f521e
Student ID: STU6151e5d507fae1632757205

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Certificate ID: f9c01e1dcdc8b0d5740ad54f705d2af5
Student ID: STU6371F43585b9116684f2469

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Criterion 1: Curricular Aspects

1.3 Curriculum Enrichment

1.3.4.1: Number of students undertaking field projects / internships / student projects

Programme Name: B.Tech Information Technology.

Field Projects/Student Projects Proof

AUTOMATED SUBJECTIVE EXAMINATION EVALUATION SYSTEM USING BERT & BM25

A PROJECT REPORT

Submitted by

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in partial fulfilment for the award of the degree

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in

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

The Automated Subjective Examination Evaluation System using AI and ML aims to objectively evaluate subjective answers. The system uses AI and ML algorithms such as BERT, BM-25, and Re-Ranking analysis to improve evaluation accuracy. This innovative solution has the potential to revolutionize the way subjective answers are evaluated, saving time and providing a more reliable evaluation process for students, educators, and institutions. The solution has been implemented and tested, showing significant improvement in accuracy. The benefits extend to all organizations and companies conducting subjective examination evaluations.

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9.1 CONCLUSION

In conclusion, the proposed Automated Subjective Examination Evaluation System using AI and ML offers a unique solution to the long-standing challenge of evaluating subjective answers in exams. The system utilizes cutting-edge AI technologies such as BERT, BM-25, and Re-Ranking analysis to provide a reliable evaluation process for subjective answers. The results of the study have shown a significant improvement in the accuracy of subjective answer evaluation, offering potential benefits to students, educators, and institutions..

9.2 FUTURE ENHANCEMENT

There is still scope for future enhancements to the system, such as incorporating more advanced AI and ML algorithms, exploring different datasets, and improving the user interface. Additionally, the system could be tested on a larger scale to assess its effectiveness in different exam scenarios. Overall, the Automated Subjective Examination Evaluation System using AI and ML offers a promising solution to the challenges of subjective answer evaluation and has the potential to revolutionize the way exams are evaluated in the education sector.

FOREST FIRE PROBABILITY PREDICTION BASED ON HUMIDITY AND TEMPERATURE

A PROJECT REPORT

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

Forest Fire Prediction is a key component of forest fire control. This is a major environmental problem that creates ecological destruction in the form of a threatened landscape of natural resources that disrupts the stability of the ecosystem, increases the risk for other natural hazards. Prediction of forest fire is to reduce the impact of forest fire in the future. Many fire detection algorithms are available with different approach towards the detection of fire. To predict probability of the occurrences of a forest fire, the proposed system processes meteorological parameters such as temperature, oxygen, wind and humidity.

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Many fire detection algorithms are available with different approach for the forest fire detection. Some of the techniques are image processing , Satellite hub and wireless sensors like smoke sensor, Fire Detection sensor etc., although it have good prediction towards forest fire it is bit costly and complex to implement the sensors within the forest region. Our forest fire prediction system using Machine learning can overcome the drawbacks and complexity of the previous models and these can simplify the prediction process using the factors such as temperature, humidity and oxygen level.

The future plan is to develop a fully functional forest safety web application Including more modules like reporting to the forest officers directly while providing high probability as the result when forest is in danger Providing the input automatically using AI's and sensors.

A SECURED PHOTO SHARING FRAMEWORK USING BLOCKCHAIN TECHNOLOGY FOR CROSS-SOCIAL PLATFORMS

A PROJECT REPORT

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Examination held on 11.04.2023

Internal Examiner

External Examiner

ABSTRACT

In recent years, online social networks (OSNs) have become increasingly popular due to the rapid development of mobile applications and the explosive growth in online interaction. With the growth and accessibility of technology and internet, the ease of posting and sharing photos on social networking services (SNSs) has increased exponentially. The privacy of online photos is often protected carefully by security mechanisms. However, these mechanisms will lose effectiveness when someone spreads the photos to other platforms the illegal disclosure of user's private data can cause damaging consequences and even threaten the safety of user's life. In recent years, there are some research works to address this privacy issue, yet they do not always focus on providing the normal social network services for users, such as data sharing, data retrieval and data access services. Therefore, it is a challenge to ensure the security of sensitive data while providing efficient and privacy-preserving social network services for users. In this paper, we propose Photo Chain, a blockchain-based secure photo sharing framework that provides powerful dissemination control for cross-social network photo sharing. Combined blockchain, Gaussian Blur for Face Masking, Pre Hash Algorithm for Photo integrity verification and Access Control, Mechanism can achieve secure data sharing, data retrieving, and data accessing with fairness and without worrying about potential damage to user's interest. In contrast to security mechanisms running separately in centralized servers that do not trust each other, our framework achieves consistent consensus on photo dissemination control through carefully designed smart contract-based protocols. Considering the possible privacy conflicts between owners and subsequent re-posters in cross social network photo sharing, we design a dynamic privacy policy generation algorithm that maximizes the flexibility of re-posters without violating former's privacy. Moreover, Photo Chain also provides robust photo ownership identification mechanisms to avoid illegal reprinting. Finally, this project implements a prototype of the framework and deploy it to a locally simulated social network. The extensive experiments and security analysis demonstrate the security, efficacy and efficiency of our proposed framework.

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CONCLUSION AND FUTURE ENHANCEMENT

Wide spread of smart mobile devices with high-resolution cameras and user-friendly social networks applications make photo sharing an easy and therefore popular activity. However, most photo sharing services lack a sound solution for protecting user's privacy. In this project, we designed, implemented and evaluated an extended control framework for block chain enabled privacy-preserving photo sharing across different social networks, called Photo Chain.

It helps social networking users to preserve their privacy requirements assigned on their uploaded photos, by control the operations of the following users on a dissemination chain. Photo chain not only protects the shared photos so that no unauthorized users can access them, but also enables users to blur their image search so that the search can also be shared to across social networking site obliviously without leakage on the query contents or results. Moreover, Photo Chain not only protects user's privacy but also reduces the system overhead. Evaluation results demonstrated its effectiveness. The concept of Photo Chain which provides confidentiality, Integrity and privacy. Not only does the proposed scheme not interrupt information sharing among legitimate users, but also it prevents unauthorized users from obtaining the private information.

We will further improve our scheme by considering more security levels of different groups as well as more user related attributes for providing finer-grain access control. In the future, we intend to explore the role of the latest technologies, such as federated learning, in preserving user's privacy in Cross SNs.

FACE RECOGNITION AUTHENTICATION FOR CREDIT CARD TRANSACTIONS

A PROJECT REPORT

Submitted by

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

In this world, money is crucial, and different payment methods are available at the Point of Sale (PoS), including cash on delivery, online transactions, credit card transactions, and monthly installment plans. When making an online purchase, consumers have the choice of using credit/debit cards or online banking. The credit card serves as a renowned payment instrument and is frequently used. Real-time internet transactions present numerous opportunities for attackers or hackers to obtain sensitive data. The information is processed, and acknowledgments are sent to the bank for both valid and invalid transactions. A web application that uses face detection and recognition technology during credit card transactions can address several privacy issues, such as credit card fraud. Typically, individuals either lose their credit card or give it to an unfamiliar person, making it vulnerable to fraudsters. Therefore, a mechanism that minimizes the risk of fraudsters is being developed. The suggested system processes the user's facial image input and compares it to the user's respective maintained in a database for authentication purposes. This suggested solution makes use of the face recognition capabilities of the Graham learning algorithm. If the image matches and proved that they are authentic, the user will be allowed to proceed with the transaction.

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8.1 CONCLUSION

This project entitled as "Credit Card Transaction Based on Face Recognition Technology" has been developed to satisfy all the proposed requirements. The process of recording details about online shopping is more simple and easy. The system reduces the possibility of errors to a great extent and maintains the data in an efficient manner. User friendliness is the unique feature of this system. The system generates the reports as and when required. The system is highly interactive and flexible for further enhancement. The coding is done in a simplified and easy to understandable manner so that other team trying to enhance the project can do so without facing much difficulty. The documentation will also assist in the process as it has also been carried out in a simplified and concise way.

8.2 FUTURE ENHANCEMENT

While face recognition technology can be an effective way to prevent fraud, it's not fool proof. Future work could focus on developing additional security measures, such as multi-factor authentication or biometric sensors, to further enhance the security of credit card transactions. Also focus on expanding the usability of this technology so that it's available to more consumers and businesses.

FRUIT DISEASE PREDICTION WITH FERTILIZER RECOMMENDATION FOR CITRUS FAMILY USING DEEP LEARNING

A PROJECT REPORT

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

The citrus fruit plants are affected by various diseases such as citrus canker, Melanose, citrus black spot, etc. Citrus canker is an inflammation of the citrus trees and is extremely infectious and causes yellow halo lesions or scabs on the leaves or fruits. Extreme infections can cause fruit damage, damaged fruit, drop of fruit and death. The cancer bacteria readily and rapidly disperse to air currents, plants, birds and also the humans via clothing and infected components. This study presents a citrus fruit disease prediction system using Convolutional Neural Networks (CNN). Here implement efficient CNN models to identify and classify citrus diseases from citrus images. The proposed system can classify five types of citrus diseases including citrus canker, citrus greening, citrus black spot, citrus scab, and healthy citrus. The computational approaches play a major role in automatic identification and early diagnosis diseases in citrus fruits for in-creasing growth and quality. Image processing techniques such as pre-processing, image segmentation, features extraction and classification are used to design a diagnosis system to identify the diseases in citrus plants. Typically, the users used sensors and cameras to acquire the Citrus leaves and fruit images from the field. The pre-processing techniques remove noises from the captured images and enhance the images. CNN extracts feature from raw inputs in an analytical manner. The features with the highest likelihood values are chosen for classification. The feature extraction techniques extract the features from the diseased regions. Finally, the classification techniques are applied to recognize the citrus fruit diseases. This system could be used by farmers and researchers to detect citrus fruit diseases at an early stage, which would ultimately help in reducing the economic losses caused by citrus fruit diseases.

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8. CONCLUSION AND FUTURE ENHANCEMENT

Citrus fruit disease classification approach based on CNN classification algorithm was implemented to detect disease from input citrus images. The basic Convolutional Neural Network (CNN) architecture model has been used to classify Citrus fruit diseases. Convolutional Neural Network (CNN) architecture model is used to avoid the expensive training from scratch and to get higher efficiency with limited number of datasets. This proposed work justified that learning the features through CNN can provide better feature representation for citrus fruit images compared to hand-crafted features. Two convolutional layers were used in the suggested CNN model. The first convolutional layer separates low-level features from the picture, while the second convolutional layer collects high-level attributes, yielding disease classification of citrus fruit into Black spot, canker, scab, greening and melanose classes. Then use Similar Region Clustering algorithm to group extracted features. And finally apply classification process to classify the extracted features with database and detect the disease. Then recommend the fertilizers for predicted disease.

FUTURE ENHANCEMENTS

In the current study, the CNN model was trained to classify citrus fruits as healthy or having a single disease. However, in real-world scenarios, a single fruit may have multiple diseases. Future studies could focus on developing CNN models that can detect and classify multiple diseases in a single fruit.

Text Categorization on News Headlines Deploying Opinion Mining in NLP

A PROJECT REPORT

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

This paper provides an overview of the current state of the art in text categorization and opinion mining on news headlines. The task of categorizing news headlines into different topics and determining the sentiment expressed in them is important for a variety of applications, including media monitoring, information retrieval, and content organization. However, the high volume and dynamic nature of news headlines present several challenges for Natural Language Processing (NLP) researchers. This paper discusses various NLP techniques and algorithms for accurately categorizing headlines and determining their sentiment, as well as the challenges and limitations of such a task. The paper also presents evaluation metrics for measuring the performance of different approaches and highlights areas for future research. This paper examines the application of text categorization and opinion mining in the field of NLP for news headlines. The task of categorizing news headlines into different topics and determining the sentiment expressed in them has significant practical applications in fields such as media monitoring, information retrieval, and business intelligence. The paper presents a review of current NLP techniques and algorithms for accurately categorizing headlines and determining their sentiment. The challenges and limitations of such a task are also discussed, as well as evaluation metrics for measuring the performance of different approaches. This paper highlights the potential for continued research and development in the application of text categorization and opinion mining on news headlines. The system utilizes advanced NLP techniques and algorithms to categorize news articles into different topics and determine the sentiment expressed in them. The evaluation of the news tracker application shows high accuracy in categorizing news articles and determining the sentiment expressed, making it a valuable tool for media monitoring, market research, and business intelligence. This paper highlights the potential of the news tracker application and provides insights into future research directions. The application is user-friendly, easy to navigate, and can be customized to meet the specific needs of different users.

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CONCLUSION AND FUTURE ENHANCEMENT

9.1 CONCLUSION

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a framework that enables the manager to make reasonable estimates made within a limited time frame at the beginning of the software project. We can add printer in future. We can give more advance software for News Tracker Application including morefacilities. We will host the platform on online servers to make it accessible worldwide. Integrate multiple load balancers to distribute the loads of the system. Create the master and slave database structure to reduce the overload of the database queries. Implement the backup of codebase and database on regular basis on different servers. The development of a news summarization application has the potential to revolutionize how individuals consume news in today's fast-paced world. The application that was developed performed well in accurately and efficiently summarizing news articles, reducing their length while still conveying essential information. However, it is essential to remain mindful of the potential limitations and ensure that the use of summarization applications does not lead to a reduction in the quality of journalism or individuals' understanding of current events.

9.2 FUTURE ENHANCEMENT

1. Improving the accuracy of the machine learning algorithms used to determine which information to include in the summary. This could be achieved through the use of more advanced NLP techniques or by incorporating user feedback to refine the algorithms.
2. Developing more advanced summarization techniques that go beyond simply reducing the length of an article. For example, the application could summarize an article's key arguments or provide a summary of the article's sources and evidence.
3. Integrating the application with other news-related tools, such as news recommendation engines or social media feeds, to provide a more comprehensive and personalized news experience.
4. Addressing potential concerns around the impact of news summarization applications on the overall quality of journalism. This could involve working with news organizations to ensure that they continue to produce high-quality, in-depth articles or developing new methods for evaluating the quality of summarized news content.

CURRENCY RECOGNITION FOR BLIND PEOPLE USING CNN ALGORITHM

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

Owing to the rapid advancements in smartphone technology, there is an emerging need for a technology that can detect banknotes and coins to assist visually impaired people using the cameras embedded in smartphones. Previous studies have mostly used handcrafted feature-based methods, such as scale invariant feature transform or speeded-up robust features, which cannot produce robust detection results for banknotes captured in various backgrounds and environments. With the recent advancement in deep learning technology, some studies have been conducted on banknote and coin detection using K-nearest algorithm. However, these studies also showed degraded performance depending on the changes in background and environment. To overcome these drawbacks, this paper proposes a three stage detection technology for new banknotes by applying faster region-based CNN, geometric constraints. In the experiment performed using the open database of Jordanian dinar (JOD) and 6,400 images of eight types of Korean won banknotes obtained using our smartphones, the proposed method exhibited a better detection performance than the state-of-the-art methods based on handcrafted features and deep features. This system has been developed with several features like audio output and higher accuracy.

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In conclusion, the use of CNN algorithm for detecting currency was found to be more accurate than e KNN and SVM. The study used a dataset that included factors such as texture, colour and an audio cation as the output. The CNN algorithm achieved an overall accuracy of 95%, while the KNN rithm had an accuracy of 80%, and the SVM had an accuracy of 82%. The CNN algorithm's ability to dle large amounts of data and reduce the risk of overfitting likely contributed to its higher accuracy. ditionally, Random Forest can handle non-linearity and complex relationships between the inputs and puts which is an important factor in this application. It's important to note that the results are dependent he quality and quantity of the data used in the study, and also the specific problem scenario. Therefore, important to test the algorithm on different datasets and problem scenarios to make sure the results are eralizable. In summary, CNN algorithm proves to be a better option for detecting currency based on the set used in the study and its ability to handle large data and reduce overfitting. It's important to test the rithm on different datasets and problem scenarios to confirm the generalizability of the results. In future s project would be further developed by installing a webcam in coolers and also for recognition of coins d foreign currency. In future we can extend the framework to implement various algorithms to improve accuracy for different countries and embed this system with sensors and also mobile applications.

IDENTIFICATION AND SELECTION OF RANDOM FOREST ALGORITHM FOR PREDICTING HYPOTHYROID

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

This report presents a study on the prediction of hypothyroidism using a Random Forest algorithm and compares its performance with two other machine learning algorithms, K-Nearest Neighbors (KNN) and Support Vector Machine (SVM), which were previously used in similar studies. The study was conducted by comparing the performance of the three algorithms on the same dataset, and evaluating the results using various metrics. The results indicate that the Random Forest algorithm outperforms KNN and SVM in terms of prediction accuracy and efficiency when used for hypothyroidism prediction. The study offers insights on the advantages and limitations of using different machine learning algorithms for hypothyroidism prediction and suggests that Random Forest algorithm can be a good choice for this task. This report presents a study on the prediction of hypothyroidism using body symptoms as inputs and a Random Forest algorithm. The goal of this work is to create a prediction model for hypothyroidism, a condition in which the thyroid gland is underactive. To determine the likelihood that a patient has hypothyroidism, the algorithm makes use of a variety of demographic and symptom data. The program then makes recommendations for nearby hospitals based on the patient's district if the prediction is positive. This strategy aims to enhance the early diagnosis and treatment of hypothyroidism, thereby improving patient outcomes. It determines the most accurate and efficient method for predicting hypothyroidism and then mapping the patient location to the nearest hospital that has the capability to treat hypothyroidism.

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CONCLUSION AND FUTURE ENHANCEMENT

In conclusion, the study found that both SVM and KNN can be used for predicting hypothyroidism. However, when using Random Forest as an ensemble method, it was found that the combination of SVM and KNN resulted in the highest accuracy and F1-score. Therefore, it can be suggested that using SVM and KNN in combination with Random Forest may be a better approach for predicting hypothyroidism than using either of the methods alone. Further research is needed to confirm these findings and to explore other ensemble methods that may improve the accuracy of hypothyroid prediction. Random forest was used, and it was discovered to be 98 percent accurate on average. Random forest is the most efficient in classification, and KNN is the least efficient. Our proposed method would also be helpful in creating a medical-related application. The efficient and accurate diagnosis of thyroid disease will benefit the whole medical community. The healthcare system can be further enhanced, and better medical decisions can be made.

OPTIMIZED LSTM MODEL FOR ELECTRIC LOAD FORECASTING USING DEEP LEARNING WITH GENETIC ALGORITHM

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

Due to its ability to understand long-term connections between data time steps, LSTMs are often used to arn, analyze, and categorize sequential data. An LSTM (long short-term memory) model for forecasting iture energy usage is what this research aims to create. To be used as input into the LSTM model, energy onsumptiondata will be gathered and preprocessed. The model will be adjusted for best performance after eing trained on the data. After being trained, the model will be able to estimate future energy usage by horting historical consumption trends and utilizing that data to anticipate future consumption. Energy roviders may utilize theseforecasts to streamline their operations, and customers can use them to make well-formed choices about how much energy they use. Prediction generation, model training and assessment, ata gathering, and preprocessing are all parts of the project. Utilizing pertinent indicators, the model's erformance will be assessed, and the findings will be presented in relation to scenarios for predicting actual nergy usage. Using the prior model as a foundation, we're adding the extra feature that the output data is elivered to the registered email.

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The conclusion of this study is that the optimized LSTM model outperformed the traditional LSTM model and other benchmark models in terms of accuracy, precision, and computational efficiency. The genetic algorithm helped in selecting the optimal hyperparameters for the LSTM model, which resulted in improved accuracy and reduced computational time. The future enhancement of this model could include incorporating external factors such as weather conditions, economic indicators, and energy prices, which may have an impact on the electric load demand. Additionally, the model could be extended to include multi-step forecasting to predict the electric load demand for multiple future time periods. Moreover, the model could be used for other applications in the energy sector, such as renewable energy generation forecasting and energy market price prediction.

FUSION OF IRIS, FACE AND FINGERPRINT USING SCORE LEVEL MECHANISM FOR BIOMETRIC APPLICATION

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

Biometric systems are used to measure the authentication conditional biological attributes of humans namelyface, iris, fingerprint of the individuals ,and not all the multi model issues a superior security for the application but the multi model biometrics also causes some attacks such as spoof attacks and narrow results. Get the better of the issues and develop the multi model biometrics technology has newly gained interest due to its ability(Using VGG 16and grassmann). In this proposed system ,visual geometry group 16 which is used to the object detection and classification to classify the 1000 images in various categories with 92 % accuracy. using Grassmann manifold learning approach , we can complete still to video planning approach to manage coordinate the photos with accounts.The experiment gives the robust result.

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CONCLUSION AND FUTURE ENHANCEMENT

Score-level integration of facial, iris, and finger printing systems has been proposed. To manage massive datasets involving millions of individuals, we need this infrastructure. The scores were modified using the sum, product, and weighted sum rules in addition to the min max method before fusion. Every one of the a forementioned methods is superior to those based on a single data source and results in greater precision overall. When compared to the sum and product methods, the weighted sum rule performs significantly better. Possible future applications include fingerprint readers, irises scans, and facial recognition systems. These methods will reduce processing time while increasing accuracy. The future of biometrics will be adding voice, or other types of biometric authentication to security for accessing sensitive data at work, applying for a bank loan, or using money management systems. Biometric authentication is a type of authentication that uses unique physical or behavioral characteristics of an individual to verify their identity. It has become increasingly popular in recent years to enhance security in a wide range of applications, including access control, banking, and mobile devices. The advantages of biometric authentication include the fact that it is difficult to fake or steal biometric information, making it a highly secure method of authentication. Biometric authentication is also convenient for users, as they do not need to remember passwords or carry physical tokens with them. However, biometric authentication also has some limitations and concerns. One major concern is the possibility of privacy invasion and data breaches if biometric data is not stored and secured properly. There is also the possibility of false positives and false negatives, where the system either accepts an imposter or rejects a genuine user.In conclusion, biometric authentication can be a highly effective method of authentication, but it should be used with caution and appropriate safeguards in place to protect user privacy and prevent data breaches. Biometric authentication should also be used in conjunction with other authentication methods to provide a multi-layered security approach.

AADHAAR UID MASK DETECTING TOOL USING CNN WITH VERHOEFF ALGORITHM

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

Aadhaar has evolved to exist as a required identification document for all Indian citizens. Every citizen in the country is got out a unique Aadhaar number which is a centralized number, unique to every existent. Hackers are also given an Aadhaar card that stores an existence's particulars in a government database. This card serves as a base for the government to apply citizen services and the public weal. The government uses different public mindfulness sweatshops to promote the Aadhaar card, yet, numerous malicious users are ignorant of certain benefits gained by the unique identification. Aadhaar card also helps Indian citizens with the support of subventions, passport accession, opening bank accounts, and numerous further. Aadhaar numbers can be exploited by militant users and vulnerable users, which can be defended using the masked Aadhaar card service. A masked Aadhaar number includes a 12- digit ID number that can be participated with others without any threat of being duplicated. Masked Aadhaar does not unmask anything about a particular's information. It wisely minimizes the pitfalls of fraud that can be associated with militant users. The Aadhaar UID mask detecting tool explains that Masking Aadhaar is completely necessary and the accessory allows the user to mask their Aadhaar number to protect their confidential detail from unauthorized parties.

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In conclusion, an Aadhaar UID mask detecting tool using CNNs with Verhoeff algorithm is a valuable tool for protecting sensitive personal information contained in Aadhaar UID numbers. The tool aims to automatically identify and mask or redact a portion of the Aadhaar UID numbers in images and text documents to protect sensitive personal information while still allowing the data to be used for legitimate purposes. Additionally, the Verhoeff algorithm is used to validate the integrity of the numbers and ensure they are properly formatted. One possible enhancement for this tool could be the use of Super Resolution Generative Adversarial Networks (SRGANs) to increase the resolution of images before they are processed by the CNN-based identification module. This can improve the accuracy of identifying and locating Aadhaar UID numbers in images, especially when the original images are of low resolution. In addition, providing a user-friendly interface, sufficient security measures and scalability to handle large amounts of data would further enhance the Aadhaar UID mask detecting tool. It's important to note that the design and implementation of this tool will depend on specific requirements and constraints, and there may be other potential enhancements that could be made to improve the tool's performance and functionality.

BIOMETRIC VERIFICATION USING PERIOCULAR FEATURES BASED ON CONVOLUTIONAL NEURAL NETWORK

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11/4

INTERNAL EXAMINER

11/4/23

EXTERNAL EXAMINER

ABSTRACT

In recent years, digital data have emerged as a crucial infrastructure for a wide range of authentication procedures across a number of different contexts. When personal information is stored on a computer or mobile device with inadequate security measures in place, the device is vulnerable to theft or unauthorized access. The most common forms of authentication used for gaining entry to restricted areas nowadays are personal identification numbers (PINs) and passwords that combine alphabetic and numeric characters with symbols. Using large passwords with a variety of special characters helps mitigate the dangers posed by short passwords. Using the word "automated" in the title helps to set biometrics apart from other types of human identification studies. The term "periocular biometric" which describe the area of the face around the eyes. In contrast to traditional ocular biometrics, acquiring periocular biometrics does not need extensive user participation or a close capture distance. In this research, we discuss the application of the convolutional neural network technique to images of a person's eyes to do automated biometric identification using this method, which we call picture based periocular recognition. Provided by a neural network's parallel categorization, safety is provided. As biometric authentication may be somewhat costly, periocular based approaches are often employed instead. These features (sclera, eye lashes, eye shape, and eyelids) may be utilized for identification instead of the complicated iris pattern since they don't need a high-resolution picture and are unique to each individual. Based on testing results, it can be concluded that the suggested system was built in Python using datasets collectively referred to as CASIA iris data.

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In this study, Convolutional Neural Networks (CNNs) are a powerful tool for periocular recognition tasks. By learning to extract relevant features from the periocular region, CNNs can accurately identify individuals based on their periocular features. However, it's important to keep in mind that periocular recognition is a challenging task due to the variability in the appearance of the periocular region, and the design of the CNN model must take this into account. Additionally, it's essential to use large, diverse datasets to train the model, as well as to evaluate its performance on a separate test set to avoid overfitting. With these considerations in mind, CNNs have proven to be effective for periocular recognition, and have the potential to be used in a wide range of real-world applications. The primary goal was to compile a database of photos taken in natural settings, including information on the periocular area, such as the amount of light, the presence of background noise, and other characteristics of the images. In this research, we built a convolutional neural network (CNN) model using periocular pictures to provide an effectively for detecting these anomalies.

ALERT SYSTEM FOR FOREST FIRE DETECTION USING CNN ALGORITHM

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INTERNAL EXAMINER

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ABSTRACT

Forest-fires are real threats to human lives, environmental systems and infrastructure. It is predicted that forest fires could destroy half of the world's forests by the year 2030. The only efficient way to minimize the forest fires damage is adopt early fire detection mechanisms. Thus, forest-fire detection systems are gaining a lot of attention on several research centers and universities around the world. Currently, there exists many commercial fire detection sensor systems, but all of them are difficult to apply in big open areas like forests, due to their delay in response, necessary maintenance, high cost and other problems. In this project, image processing methods has been used due to several reasons such as quick development of digital cameras technology, the camera can cover large areas with excellent results, the response time of image processing methods is better than that of the existing sensor systems, and the overall cost of the image processing systems is lower than sensor systems. Accurate forest fires detection algorithms remain a challenging issue, because, some of the objects have the same features with fire, which may result in high false alarms rate. This project presents a newvideo-based, image processing forest fires detection method, which consists of four stages. First, a background-sabtraction algorithm is applied to detect moving regions. Secondly, candidate fireregions are determined using RGB color space. Thirdly, features extraction is used to differentiate between actual fire and fire-like objects, because candidate regions may contain moving fire-like objects. Finally, convolutional neural network algorithm is used to classify the region of interest to either real fire or non-fire. The final experimental results verify that the proposed method effectively identifies the forest fires.

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In this project, the process of the forest fire image recognition algorithm based on CNN is presented. Its main feature is that the flame image is employed for training and testing. Then, CNN model is introduced, and an adaptive pooling method combined with color features is proposed for the problem that the traditional pooling method in Back propagation neural network (BPNN) may weaken the image features in some cases. The effects of learning rate, batch size, and other parameters on the performance of CNN are analyzed based on experiments, and the optimal parameters are determined. Candidate flame area is extracted based on color feature; thus, the image feature of non-flame area in the hidden layer is reduced, and the feature, such as shape and texture, is enhanced. The information loss of image are avoided as adaptive pooling is adopted, and the rate of flame recognition in which fire area is segmentation than that of original image is adopted without segmentation. It is shown that the proposed algorithm has high recognition rate and is feasible.

FUTURE ENHANCEMENTS

In future, we can extend the framework to implement various deep learning algorithms to predict fires in multiple images with improved accuracy rate.

AN NOVEL ALGORITHM FOR CLOUD SECURE STORAGE USING CLOUD DISPERSION AND BLOCK CHAIN SYSTEM

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

This project describes cloud storage system is support for rapid development of cloud computing Data leakage prevention algorithm is implemented secure storage mechanism CSSM adopted a hierarchical management approach and combined user password with secret sharing to prevent cryptographic materials leakage The encryption of data Advanced encryption standard algorithm(AES) is implemented for encrypted of data . The proposed scheme ensuring the reduced overhead and latency in system. The objective of the project to secure the cloud data with reduced leakage system. The main objective of work the main objective of the proposed mechanism is to secure cloud storage against data breach, which may be the result of targeted attack (e.g. disk cloning) or management negligence (e.g. misconfiguration), in case hackers even some malicious administrator is able to steal user data.

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This project describes the cloud data secure storage systems a feasible approach to solve the storage security problem, especially prevention from user data leakage at cloud storage layer. CSSM could also effectively protect cryptographic materials from storage perspective with improved data security. We can achieve the better cloud storage management protocol is implemented in this system for best cloud storage management. This proposed algorithm provide the better integrity of data storage management. CSSM adopted a combined approach of data dispersal and encryption technologies, which can improve the data security and prevent attackers from stealing user data. The experimental results show that CSSM can effectively prevent user data leakage at cloud storage layer. In terms of performance, the increased time overhead of CSSM is acceptable to users. This paper provides a feasible approach to solve the storage security problem, especially prevention from user data leakage at cloud storage layer. CSSM could also effectively protect cryptographic materials from storage perspective.

DATA ANALYTICS SYSTEM FOR DIGITAL CURRENCY PRICE PREDICTION USING REGRESSION ALGORITHM

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INFORMATION TECHNOLOGY

M.KUMARASAMY COLLEGE OF ENGINEERING

(AUTONOMOUS) – KARUR 639 113

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APRIL 2023

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

Cryptocurrency is a type of digital currency like dollars, euros, and yen. The difference is that instead of the backing of a nation or federal bank, it uses an online ledger with strong cryptography to secure online transactions. Through cryptocurrency exchanges, one can buy and sell cryptocurrencies. It can also be "mined." The popularity of cryptocurrencies skyrocketed in 2017 because of several months of exponential growth in their market capitalization. With increasing geopolitical and economic issues over the last two years, global currency values have fallen, stock markets have had a bad run, and investors have lost wealth. This has rekindled interest in digital currencies. Unlike traditional paper currency which can be printed as per market needs, Cryptocurrency has a limited supply. This is to ensure that printer inflation does not occur, and the currency does not get devalued. However, due to the limited supply of cryptocurrency and with 80% cryptocurrencies already mined by mid-July 2018, it is anticipated that the remaining of the 21 million worth of cryptocurrencies will take a large amount of time to mine and to perform such large computations, relative infrastructure will also be required with the possibility of a low return in the future. The system aids in cryptocurrency price prediction using machine learning. Using machine learning, this program helps in forecasting cryptocurrency prices. To predict . bitcoin prices quantitatively more accurately. Experimental results shows that the proposed system provide high level accuracy in cryptocurrency price prediction using machine learning algorithm named as LSTM algorithm.

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CONCLUSION

In conclusion, cryptocurrency price prediction is a crucial task in the cryptocurrency market, which is characterized by high volatility and uncertainty. Accurately predicting cryptocurrency prices can provide valuable insights for traders and investors, helping them make informed decisions about buying, selling, or holding cryptocurrencies. LSTM algorithm is a popular and effective approach for cryptocurrency price prediction, as it can capture the temporal dependencies and patterns in the data. The process of building a cryptocurrency price prediction model involves collecting and preprocessing historical data, designing and training an LSTM model, and evaluating the model's performance using various metrics. However, it is important to note that no prediction model can be perfect and accurate all the time, as the cryptocurrency market is influenced by various factors that can impact the prices of cryptocurrencies in unpredictable ways. Therefore, it is essential to use cryptocurrency price predictions as a guide and not rely solely on them for making investment decisions. In summary, cryptocurrency price prediction is a challenging task that requires a deep understanding of the cryptocurrency market and statistical modeling techniques. Nonetheless, accurate cryptocurrency price prediction models can provide valuable insights for traders and investors and help them make informed decisions about cryptocurrencies.

Currently, most cryptocurrency price prediction models focus on historical price data, but other features such as market sentiment, social media activity, and news events could also be incorporated to improve the accuracy of the models.

FUTURE ENHANCEMENT

In future it can be extended with the implementation of various deep learning algorithms for predicting prices with improved efficiency.

CONTAGIOUS DISEASE PREDICTION USING RANDOM FOREST ALGORITHM INTERPOLATED WITH FUZZY MODEL

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

Contagious diseases pose a significant threat to public health worldwide. The timely and accurate prediction of outbreaks can help mitigate their spread and reduce their impact. In recent years, machine learning algorithms have been widely used to predict the incidence of infectious diseases. However, traditional approaches have limitations in handling the complexity and uncertainty of the data. To overcome these limitations, this paper proposes a novel approach for predicting the spread of contagious diseases using a Random Forest algorithm interpolated with a Fuzzy model. The proposed method integrates both qualitative and quantitative data sources, such as demographic information, climate, and historical disease incidence rates, to generate accurate and robust predictions. The Random Forest algorithm is used to identify the most significant features in the data, while the Fuzzy model is utilized to handle uncertainty and vagueness in the data. The model's performance is compared with other traditional machine learning algorithms, and the results demonstrate that the proposed approach outperforms them in terms of accuracy and robustness. The proposed model can be a valuable tool for policymakers and healthcare professionals in making informed decisions regarding disease prevention and control. The approach's ability to handle uncertainty and vagueness in the data makes it particularly useful in situations where data quality is poor or incomplete. Furthermore, the model can be extended to predict the incidence of other contagious diseases by incorporating additional relevant features. In conclusion, this paper proposes a novel approach for contagious disease prediction using a Random Forest algorithm interpolated with a Fuzzy model.

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CONCLUSION AND FUTURE WORK

9.1 CONCLUSION

In this project the problem of constraining and summarizing different algorithms of data mining used in the field of medical prediction are discussed. The focus is on using different algorithms and combinations of several target attributes for intelligent and effective heart disease prediction using data mining. Data mining technology provides an important means for extracting valuable medical rules hidden in medical data and acts as an important role in disease prediction and clinical diagnosis. There is an increasing interest in using classification to identify disease which is present or not. In the current study, have demonstrated, using a large sample of patients hospitalized with classification. Classification algorithm is very sensitive to noisy data. If any noisy data is present, then it causes very serious problems regarding to the processing power of classification. It not only slows down the task of classification algorithm but also degrades its performance. Hence, before applying classification algorithm it must be necessary to remove all those attributes from datasets who later on acts as noisy attributes. In this research work, this can implement pre-processing steps and implemented the classification rule algorithms namely multi-layer perceptron are used for classifying datasets which are uploaded by user. By analysing the experimental results, it is observed that the multi-layer perceptron technique has yields better result than other techniques.

9.2 FUTURE ENHANCEMENT

In future this tend to improve efficiency of performance by applying other data mining techniques and algorithms with new improved Web Application.

AIRCRAFT DETECTION ANALYSIS USING REMOTE SENSING IMAGES DEPLOYING DEEP NEURAL NETWORK

A PROJECT REPORT

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ABSTRACT

In computer vision technology, aircraft recognition is crucial. The shape of the aeroplane can be extracted using a recognition processor. The process of recognising and identifying a specific object or element in a digital image or video is known as image recognition. This technique is employed in numerous applications, including frameworks for computerising industrial lines, toll corner observation, and security observation. Aside from their intricate structures, aeroplanes vary in terms of their size, form, and coloration. Even within a same kind, the texture and intensity are frequently variable depending on the situation. Additionally, recognition is frequently hampered by diverse disruptions like clutter, disparate contrasts, and homogeneity fear. Therefore, the technique heavily depends on robustness and disturbance resistance. This technology makes use of neural networks to recognise aircraft. The median filter algorithm is used to process the input satellite image. For feature extraction, it is employed (shape, size, texture). The magnitude response of the filter outputs is then used to calculate the feature vector, which eases the numerical challenges. Following that, a neural network approach known as a convolutional neural network is utilised to determine the layer between classes. Dimensionality reduction, segmentation and template-based aircraft identification are all part of this recognition method. A Super pixel segmentation is specifically suggested to lessen the dimensionality of the satellite image. The desired object is then distinguished from the background using histogram probability thresholding. Convolutional neural networks are used to classify data using templates as matching models. Finally, send an alert system to the administrator when an aircraft is detected and offer a higher accuracy rate than the current algorithm.

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CONCLUSION AND FUTURE ENHANCEMENT

The project presented the aircraft recognition from satellites images for surveillance application with a super pixel segmentation and template matching model. The tracking system provides the result with low computational complexity and better accuracy. Neural network analysis was utilized effectively for enhancing a segmented regions and tracking target objects. Finally, the simulated result was shown that better efficiency achieved with chosen techniques and methodologies. This work has proposed a new automatic target classifier, based on a combined neural networks' system, by ISAR image processing. The novelty introduced in our work is twofold. We have first introduced a novel automatic classification procedure, and then we have discussed about an improved multimedia processing of ISAR images for automatic object detection. We have exploited a neural classifier, composed by a combination of back propagation artificial neural networks. The classifier is used to recognize aircraft targets extracted from ISAR images. The combination of two image processing techniques, recently introduced in literature, is exploited to improve the shape and features extraction process. Then, Super pixel descriptors are computed and used as input features to our combined system. Performance analysis is carried out in comparison with conventional multimedia processing techniques as well as with classical automatic target recognition systems. Numerical results, obtained from wide simulation trials, evidence the efficiency of the proposed approach for the application to automatic aircraft target recognition. Future works will regard the improvement of the performances of the single NNs by applying suitable optimization algorithms to the NNs learning process.

FUTURE ENHANCEMENTS

In future these results show the proposed shape primitives are indeed sufficiently powerful to aircraft recognize in satellite remote sensing images. Potential moving object are first identified on the time series images in frame-based object tracking. The future work will concentrate on analysing the performance of different kernel function on different application.

SKIN CANCER DETECTION USING COMBINED DECISION OF DEEP LEARNING

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ABSTRACT

Skin Cancer is a disease affecting the skin. Skin cancer may appear as malignant or benign form. Malignant melanoma is the appearance of sores that cause bleeding. Malignant Melanoma is the deadliest form of all skin cancers. It arises from cancerous growth in pigmented skin lesion. It is named after the cell from which it presumably arises, the melanocyte. If diagnosed at the right time, this disease is curable. Melanoma diagnosis is difficult and needs sampling and laboratory tests. Melanoma can spread out to all parts of the body through lymphatic system or blood. Laboratory sampling often causes the inflammation or even spread of lesion. The correct identification of skin spots based on certain features is the key steps in detecting the skin cancer disease in advance. In the proposed work, include the features extraction and classification. The features extraction includes HSV color features, Texture features. After that implement Convolutional neural network algorithm is used to classify the features as affected or normal. CNN models can be used for classification of the affected skin images without the need for performing segmentation and feature extraction independently. The performance of the system can be compared with existing algorithm named as Support Vector Machine. Experimental results shows that the proposed CNN outperformance than the existing system.

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9.1 CONCLUSION

Many solutions regarding image processing using computer aided diagnosis (CAD) have been performed to aid dermatologists in their diagnoses. In summary, deep learning algorithm using the concept of Convolutional neural network is proposed. A CNN is introduced based on a learned model of normal skin and lesion textures. Representative texture distribution and colour distributions are learned from the image itself and CNN algorithm is used to classify the skin cancer. The features are extracted based on HSV colour and statistical features. The entire proposed framework is tested by using the illumination correcte images as the input to the segmentation algorithm. And classify the results with machine learning and deep learning algorithm. It is compared to state-of-art lesion classification algorithms, including SVM and CNN designed for lesion images. The proposed framework produces the highest accuracy using manually segmented images as ground truth. A larger data collection and annotation process, including additional testing on a wide range of images, will be undertaken as future work. While the experimental results show that the proposed method is able to segment the lesion in images of different scales and levels of quality, it is worth conducting a more comprehensive analysis on the impact of image quality and scale on the proposed method.

9.2 FUTURE ENHANCEMENT

In future work, we can extend the framework to implement various classification algorithms and also implement the framework to predict various diseases. Unfortunately, it is difficult to compare different classification methods because some approaches use non-public datasets for training and/or testing, thereby making reproducibility difficult. Future publications should use publicly available benchmarks and fully disclose methods used for training to allow comparability.

LIQUID PETROLEUM HYDROCARBON OCEAN COASTAL WATER POLLUTION IDENTIFICATION USING DEEP NEURAL NETWORK

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

Oil spills are a very dangerous occurrence for marine ecosystem is affected and the marine life-forms' existence gets unnecessarily threatened. Oil destroys the insulating ability of fur-bearing mammals, such as sea otters, and the water repelency of a bird's feathers, thus exposing these creatures to the harsh elements. Without the ability to repel water and insulate from the cold water, birds and mammals will die from hypothermia, as a result, it becomes important to employ various oil spill cleanup methods. In our system we may automatically detect & cleaning the oil in the sea water by using a modern techniques. In this paper, we present a CNN architecture for semantically segmenting SAR images into multiple classes. The proposed CNN is specifically designed to run on remote embedded systems, which have very limited hardware capability and strict limits on power consumption. Even if the performance in terms of results accuracy does not represent a step forward compared with previous solutions, the presented CNN has the important advantage of being able to run on remote embedded systems with limited hardware resources while achieving good performance. The presented CNN is compatible with dedicated hardware accelerators available on the market due to its low memory footprint and small size. So that the amount of data that needs to be transmitted to ground and processed on ground can be substantially reduced, which will be greatly beneficial in significantly reducing the amount of time needed for identification of oil spills from SAR / real-time images and send SMS alert.

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In this study, we employ deep learning technology, the most widely used approach, to identify and predict the level of maritime oil contamination. By utilizing a combination of image processing techniques, our aim is to detect oil spills and minimize their negative impacts on coastal communities, marine life, and industries such as fishing and tourism. The experimental data used in the article is an aerial image. Whether caused by human activities or natural disasters, they are a widespread problem. Despite the encouraging results of using Convolutional Neural Networks (CNNs) for oil spill detection, there are still areas for improvement. Oil spills are a major environmental and economic problem that can have severe consequences for marine life, coastal communities, and industries such as fishing and tourism. They occur when oil is released into the environment, either through human activities or natural disasters. The use of CNNs for oil spill detection has shown promising results, but there are still factors to be considered for further improvement. By using high-quality training data and carefully selecting the appropriate model architecture, the accuracy and speed of oil spill detection using CNNs can be further improved.

XCEPTION FRAMEWORK FOR PREDICTING PNEUMONITIS USING DEEPLEARNING

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ABSTRACT

Pneumonia is a lung disorder that can be brought on by infections with bacteria, viruses, and fungi. To identify the location of inflammation in a picture, a pneumonia detection system is being built. An experienced radiologist can identify the illness from chest X-ray images. This will examine how various pre-processing methods, including X-rays, can identify and categorise numerous diseases. Computer-aided diagnosis systems are therefore required to direct the practitioners. For the purpose of predicting pneumonia, this system employs a deep neural network algorithm using the Xception framework. The primary focus of this research is on the classification of CT scan images for patients with coronavirus infections using CNN models. The training dataset and the testing datasets are uploaded to predict .The test results revealed that the software can distinguish between photos that are infected and those that are not. The Xception network detects pneumonia cases more effectively.

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Pneumonia diseases such as chronic obstructive pulmonary disease (COPD), lung cancer, and pneumonia are among the leading causes of death worldwide. Early detection and accurate diagnosis of these diseases can greatly improve patient outcomes and increase the chances of successful treatment. CNNs have shown promising results in analyzing medical images, such as chest X-rays and computed tomography (CT) scans, and detecting abnormalities that may indicate the presence of lung disease. We have presented our approach for identifying pneumonia and understanding how the lung image size plays an important role for the model performance. The distinction is quite subtle for images among presence or absence of pneumonia, large image can be more beneficial for deeper information. However, the computation cost also burden exponentially when dealing with large image. However, it is important to note that the use of CNNs for lung disease prediction is still in the early stages of research and more studies are needed to validate their accuracy and determine the best way to integrate them into clinical practice. At last, additionally include the accuracy of these models can be limited by the quality and size of the available training data, as well as the complexity of the underlying diseases. It is important to continue to advance our understanding of these diseases and to collect large, diverse, and high-quality datasets that can be used to train these models.

DEEP LEARNING MODEL FOR AUTOMATED KIDNEY STONE DETECTION USING VISUAL GEOMETRY GROUP 16

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ABSTRACT

Urine crystallization that results from chemical concentrations or a congenital tendency is known as kidney stone formation. The prevalence of kidney illnesses is rising worldwide, and the majority of those who have it are unaware they have it since it progressively deteriorates the organ before causing symptoms. Although they are frequently ignored until they cause agonizing stomach pain or have an odd urine colour, kidney stones can also form in new born. It is simpler to take action the earlier kidney stones are discovered. Various image processing phases are used in the methods described in this article to locate kidney stones. The first step in photo preparation is the use of filters. Through this process, noise is also removed as the image is smoothed. Following that, the pre-processed images are segmented using the guided active contour technique. The next stage is to use renal imaging data to diagnose illness using convolutional neural network technology. Since CT has less noise than other imaging modalities like X-ray and ultrasound, it is the favoured imaging technique. Kidney diseases are on rise throughout the world and majority people with kidney disease do not notice the disease as it damages the organ slowly before showing symptoms. The increasing number of patients with kidney diseases leads to a high demand of early detection and prevention of kidney diseases. However, diagnosis of kidney diseases and abnormalities using ultrasound demands decision from experts as scan images suffer from multiple noises. In this project, we develop the framework to predict the kidney diseases from scan images using deep learning algorithm.

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9.1 CONCLUSION

The Systems can be used by a physician to automatically extract CT-scan features and to perform the prediction of multiple diseases automatically based on the extracted features. The developed System decreases the diagnosis time and improves the accuracy of the diagnosis. The results obtained show that the deep learning algorithm could be used to classify kidney stones.

9.2 FUTURE ENHANCEMENT

In future, we can extend the framework to implement various classification algorithms and also include the various types of images to improve the accuracy

CLASSIFICATION OF CULTIVARS EMPLOYING THE ALEXNET TECHNIQUE USING DEEP LEARNING

A PROJECT REPORT

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EXTERNAL EXAMINER

ABSTRACT

Fruit maturity and quality prediction is critical not only for farmers and the food business, but also for small retail outlets and supermarkets where fruits are sold and purchased. Fruit maturity classification is the practice of categorizing fruits based on their maturity stage in their life cycle. Machine learning (ML) is being used in many smart agricultural applications, including water and soil management, crop planting, crop disease detection, weed control, crop distribution, strong fruit counting, crop harvesting, and production forecasting. The goal of this research is to develop the best deep learning algorithms for predicting fruit ripeness and quality for fruit shelf life. Manual fruit and vegetable detection becomes simple when done in little quantities, but it is a laborious procedure when done in large quantities. As a result, automated detection of these is used. The photos of fruits, crops and pulse were used as input for the very first step of processing, where detection was performed. The entire procedure was divided into three stages: background removal, extraction of color and texture characteristics, and classification. The k mean clustering approach was used for background subtraction. Statistical characteristics were used to identify color features. The Histogram of Oriented Gradient (HOG), Local Binary Pattern (LBP), and Gray Level Co-occurrence Matrix (GLOM) were used to detect texture characteristics. This research proposes a simple and effective method for detecting fruits and predicting their nutrition information using deep Alex networks (DAN). The datasets used in the investigation were obtained from the Fruit 360 library of image processing problems. Apples, berries, bananas, grapes, papaya, peaches, avocados, and various apple tastes are among the fruit groups. Furthermore, the experiments are done out on a variety of additional fruit samples obtained from other Web archives. The network design is composed of five convolution layers and three fully linked layers, including the max pooling and RELU layers, as is customary.

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In conclusion, using deep learning for fruit identification can provide significant advantages such as improved accuracy, efficiency, cost-effectiveness, and adaptability. However, there are also potential disadvantages to consider such as data quality, complexity, hardware requirements, interpretability, and maintenance. It is important to carefully consider the potential benefits and drawbacks before deciding to implement a machine learning-based solution for fruit identification. Additionally, businesses and organizations should ensure that they have the necessary expertise, resources, and infrastructure to develop, deploy, and maintain the machine learning algorithm effectively. With proper planning and execution, machine learning can be a powerful tool for fruit identification and can improve productivity, efficiency, and accuracy in various applications. The development of a hybrid system for fruit identification using machine learning and traditional image processing techniques can greatly enhance the accuracy and efficiency of fruit identification. By leveraging the power of machine learning algorithms like CNNs, the system can learn to classify fruit images with high accuracy. Additionally, the traditional image processing techniques can extract relevant features like color, texture, and shape that can further improve the accuracy of the classification model.

The application accessible to a wider audience, it can be enhanced to support multiple languages. This will allow users to identify fruits in their preferred language. The static images for fruit identification. An enhancement to the system can involve real-time processing of video streams from cameras, which will allow users to identify fruits on the fly. The system can be enhanced to not only identify fruits but also evaluate their quality. This can be done by analysing the fruit's appearance, texture, and other features to determine if it is fresh or ripe. The system can be enhanced to include accessibility features such as voice commands and text-to-speech for users with visual impairments. This will make the application more inclusive and accessible to a wider range of users.

DEEPFAKE DETECTION WITH DEEPLEARNING USING RESNEXT AND CNN ALGORITHM

A PROJECT REPORT

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INTERNAL EXAMINER

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ABSTRACT

Video forgery is continuously increasing in the digital world due to breaches of information security, consequently establishing a scenario for image and video content monitoring for forgery identification. The spread of fake videos raises security risks and anarchy in society. The reason for video forgery is to the augmentation in the malware, which has facilitated user (anyone) to upload, download, or share objects online comprising audio, images, or video. With the development of technology and ease of creation of fake content, the manipulation of media is carried out on a large scale in recent times. Video forgery detection has applications in media science, forensic analysis, digital investigations, and authenticity verification of a video. The purpose of video forensic technology is to extract features to distinguish fake content frames from original videos. Deepfake media has posed a great threat to media integrity and is being produced and spread widely across social media platforms, the detection of which is seen to be a major challenge. Proposed, an approach for Deepfake detection has been provided for forgery detection in video. ResNet, a Convolutional Neural Network (CNN) algorithm is used as an approach to detect the Deepfake videos. The model aims to enhance the performance of detecting forgery videos produced by a certain method as well as enhance the accuracy of the detector. The proposed approach only uses the deep features extracted from the ResNet CNN model then applies the conventional mathematical approach on these features to find the forgery in the video. It is the detector to be constantly updated with real-world data, and propose an initial solution in hopes of solving deepfake video detection.

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9.1 CONCLUSION

In this work implemented Deepfake detection model to detect video forgery using Deepfake video dataset. A deepfake detection method using CNN and ResNet to extract temporai features of a given video sequence is presented, in which features are represented via the sequence descriptor. The detection network consisting of fully connected layers is employed to take the sequence descriptor as input and calculate probabilities of the frame sequence belonging to either authentic or deepfake class. Proposed model when trained with a large data set gave quiet impressive results compared to other deep learning models. Novel approach of combining feature extraction capability of Convolutional Neural Network and ResNet gave better results when compared with existing models. This shows that a simple model which uses ResNet convolutional neural networks can be used to check if a video has been subjected to any kind of manipulation. Proposed work can offer a first line defense in the detection of AI based fake videos.

9.2 FUTURE ENHANCEMENT

Deepfakes are constantly evolving, and new techniques are being developed to create more convincing fakes. Need to develop ResNet CNNs that are capable of detecting a wider range of deepfakes, including those created using new techniques. Real-time detection of deepfakes is critical for preventing the spread of misinformation on social media platforms. Research work focus on developing ResNet CNNs that can detect deepfakes in real-time, using limited computational resources.

CAMERA VISION BASED ANIMAL BEAT BACK SYSTEM FOR AGRICULTURE USING MACHINE LEARNING.

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INTERNAL EXAMINER

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Abstract

Crop raiding by animals has become one of the most common human animal disputes as a result of human encroachment of wildlife habitats and deforestation. Wild animals can cause significant damage to agricultural crops and attack farmers working in the field. Farmers suffer huge crop loss due to crop raiding by wild animal like elephants, wild boar and deer. One of the main concerns of today's farmers is protecting crops from wild animals' attacks. There are different traditional approaches to address this problem which can be lethal (e.g., shooting, trapping) and non-lethal (e.g., scarecrow, chemical repellents, organic substances, mesh, or electric fences).Farmers has tried many ways for preventing animals raid from lighting fire crackers to maintain a watch on the field through the night but none of these were effective. Nevertheless, some of the traditional methods have environmental pollution effects on both humans and ungulates, while others are very expensive with high maintenance costs, with limited reliability and limited effectiveness .In this project, we develop a system, that combines Computer Vision using DCNN for detecting and recognizing animal species, and specific ultrasound emission (i.e., different foreach species) for repelling them. The edge computing device activates the camera, then executes its DCNN software to identify he target, and if an animal is detected, it sends back a message to the Animal Repelling Module including the type of ultrasound to be generated according to the category of the animal.

Keywords: Animal Recognition, Repellent, Artificial Intelligence, Edge Computing, Animal Detection, Deep Learning, DCNN.

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9.1 CONCLUSION

Agricultural farm security is widely needed technology nowadays. In order to accomplish this, a vision-based system is proposed and implemented using Python and OpenCV and developed an Animal Repellent System to blow out the animals. The implementation of the application required the design and development of a complex system for intelligent animal repulsion, which integrates newly developed software components and allows to recognize the presence and species of animals in real time and also to avoid crop damages caused by the animals. Based on the category of the animal detected, the edge computing device executes its DCNN Animal Recognition model to identify the target, and if an animal is detected, it sends back a message to the Animal Repelling Module including the type of ultrasound to be generated according to the category of the animal. The proposed CNN was evaluated on the created animal database. The overall performances were obtained using different number of training images and test images. The obtained experimental results of the performed experiments show that the proposed CNN gives the best recognition rate for a greater number of input training images (accuracy of about 98 %). This project presented a real-time monitoring solution based on AI technology to address the problems of crop damages against animals. This technology used can help farmers and agronomists in their decision making and management process.

9.2 FUTURE ENHANCEMENT

Further in the proposed architecture, some image compression techniques can be developed to reduce the time taken for notification to reach user as described above.

EVALUATION OF AGROMETEOROLOGY USING BOOTSTRAP AGGREGATION WITH STREAMLIT

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INTERNAL EXAMINER

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ABSTRACT

Machine learning plays a crucial role in today's technologies. The study of meteorological factors that directly affect agriculture and their impact on crop production is known as Agrometeorology. The elements such as temperature, rainfall, and humidity are the primary thing that is essential for survival in agriculture. The success or failure of agriculture is influenced by weather and climate. The efficiency of agrometeorology will be discovered with the help of Machine Learning (ML) techniques. ML is a key viewpoint for finding a practical and workable solution to the crop yield problem. Given the existing methodology, which entails manual counting, climate-smart pest management, satellite imaging and the results aren't especially reliable. The main objective of this work is to forecast agricultural production using a variety of machine learning techniques. The most accurate classifier model used in this work is Random Forest, which is followed by Logistic Regression and Naive Bayes using streamlit. The forecasts made by machine learning algorithms will help farmers choose which crop to cultivate to provide the highest yield by accounting for factors such as temperature, rainfall, accuracy, humidity, soil, ph level and geographic area.

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The dataset's accessibility and the study's objectives influence the attributes used, the magnitude, geological site, and crop of the research also vary. Studies have also shown that models with additional characteristics do not necessarily perform well for predicting yield. Models with more and fewer features should be evaluated in order to determine which one performs the best. Various research has employed a variety of algorithms. The findings indicate that it is impossible to pinpoint the optimal model, but they do make it very evident that some models of machine learning are employed more frequently than others. The random forest and decision tree are the most popular models.

The primary focus of this work is the application of machine learning algorithms to forecast crops and estimate their yield. Several machine learning approaches are employed in the accuracy computation. The Random Forest classifier was used to predict the crop for the chosen district. Developed a method to predict harvests using historical data. Farmers can choose which crop to plant in the field with the help of the provided approach. The goal of this project is to gain more knowledge about the crops that can be utilised to efficiently and effectively harvest various items. Keralan farmers would profit from accurate crop predictions across numerous districts. As a result, crop yield rates are maximised, which is good for the Indian economy.

A NOVEL SEARCH FOR MISSING CHILDREN USING MACHINE LEARNING APPLICATION

A PROJECT REPORT

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EXTERNAL EXAMINER

ABSTRACT

AI can be used to assist in the search for missing persons. For example, AI-powered facial recognition technology can be used to identify missing persons in CCTV footage and security cameras. It can be used to scan online databases of missing persons, such as the National Center for Missing and Exploited Person, to identify potential matches. AI can also be used to analyze text, audio, and video data to identify patterns and trends related to missing persons. Additionally, AI can be used to generate alerts and notifications based on changes in a missing person's online activity.

AI can also be used to generate leads when searching for missing persons, such as by analyzing social media posts and tracking down people who may have interacted with the missing person. We developed web applications for training the face images for training the faces. In the database, we kept the parents names, ages, and place details of the person AI-powered app digitizes missing people's records and helps the task forces retrieve this information in real time through facial recognition. The GUI application applies a machine learning algorithm to compare user-submitted photos with those uploaded by the police. Any matches along with the place where the missing individual was last seen if they are discovered can be displayed and updated to relatives.

According to the National Crime Records Bureau (NCRB) of India, there were 105,785 cases of missing person reported in 2019. This number includes both boys and girls under the age of 18 who were reported missing. It is important to note that this number only represents the cases that were reported to the authorities, and there may be many more unreported cases. The reasons for persons going missing are varied, including kidnapping, trafficking, running away from home, or being abandoned. So we assist them to reduce the cases.

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This project describes AI-assisted missing person of tracking of person A missing person identification system is proposed, combining the powerful AlexNet-based deep learning approach for feature extraction and support vector machine classifier to classify different child categories. By putting our concept into practice, we are confident that the issues with the current system will be resolved. We are happy with how our project, "person Tracking," which involved the application's concept, programming, implementation, and testing, turned out. In addition to offering a strong security mechanism. AI-assisted missing persons in the tracking of persons and updated by police.

ALUMNI MANAGEMENT SYSTEM APPLICATION

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INTERNAL EXAMINER

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ABSTRACT

The Alumni Management System is a comprehensive platform designed to provide a seamless experience for alumni, staff and students. The system comprises of three main modules- gallery, jobs and event management, which have been designed to cater to the diverse needs of the alumni community. The gallery module is an online repository of images and videos that showcase the achievements, milestones and memories of our alumni. The job module is a comprehensive job board that provides alumni with information on job openings and career opportunities from leading employers. The event management module is a platform for organizing, promoting and managing events such as reunions, conferences, and networking events. The Alumni Management System is user-friendly and accessible from any device with an internet connection. Alumni can easily create a profile, upload images and videos, connect with classmates and apply for jobs with just a few clicks. The system also allows staff and students to keep in touch with alumni, and provide updates on the latest news, events and opportunities. Overall, the Alumni Management System a single platform for alumni, staff and students to connect, collaborate and engage with each other. It is an essential tool for building and maintaining strong relationships, and fostering a sense of community among our alumni.

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CONCLUSION AND FUTURE ENHANCEMENT

In conclusion, the alumni management is a crucial tool for maintaining strong relationships with our graduates. With the system in place, can efficiently keep track of alumni information, communicate with them, and provide them with opportunities for engagement. This has resulted in improved alumni involvement and support, ultimately strengthening its reputation and success. However, there is always room for improvement. In the future, the system could be enhanced by incorporating features such as an online job portal, a mentorship program, and a secure payment gateway for alumni donations. The inclusion of a mobile app would also allow alumni to easily access the system on the go. Personalized recommendations could also be provided to alumni based on their interests and career paths. This would not only benefit the alumni but also by strengthening its network and connections within various industries. Additionally, the integration of artificial intelligence and machine learning algorithms could help improve the accuracy and efficiency of the system. By continuously improving and expanding the alumni management system, the college can continue to foster strong relationships with its graduates and stay connected with them. This will not only benefit the college but also the alumni, who can stay connected with their alma mater and receive support throughout their careers.

CARDIO VASCULAR DISEASE PREDICTION BASED ON ANN ALGORITHM

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INTERNAL EXAMINER

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ABSTRACT

The Heart is one of the most vital structures in the human body. It is the center of the circulatory system. Heart disease is a main life intimidating disease that can origin either death or a severe long term disability. However, there is lack of effective tools to discover hidden relationships and trends in e-health data. Medical diagnosis is a complex task and plays a dynamic role in saving human lives so it needs to be executed accurately and efficiently. A suitable and precise computer based automated decision support system is required to reduce cost for achieving clinical tests. Health analytics have been proposed using ML to predict accurate patient data analysis. The data produced from health care industry is not mined. Data mining techniques can be used to build an intelligent model in medical field using data sets which involves risk factor of patients. The knowledge discovery in database (KDD) is startled with development of approaches and techniques for making use of data. This thesis provides an insight into deep learning and machine learning techniques used in diagnosing diseases. Numerous data mining classifiers have been conversed which has emerged in recent years for efficient and effective disease diagnosis. This thesis proposes a heart attack prediction system using Deep learning techniques, specifically Multi-Layer Perceptron (MLP)to predict the likely possibilities of heart related diseases of the patient. MLP is a very powerful classification algorithm that makes use of Deep Learning approach in Artificial Neural Network. The proposed model incorporates deep learning and data mining to provide the accurate results with minimum errors.

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CHAPTER 9
CONCLUSION AND FUTURE WORK

9.1 CONCLUSION

In this project the problem of constraining and summarizing different algorithms of data mining used in the field of medical prediction are discussed. The focus is on using different algorithms and combinations of several target attributes for intelligent and effective heart disease prediction using data mining. Data mining technology provides an important means for extracting valuable medical rules hidden in medical data and acts as an important role in disease prediction and clinical diagnosis. There is an increasing interest in using classification to identify disease which is present or not. In the current study, have demonstrated, using a large sample of patients hospitalized with classification. Classification algorithm is very sensitive to noisy data. If any noisy data is present then it causes very serious problems regarding to the processing power of classification. It not only slows down the task of classification algorithm but also degrades its performance. Hence, before applying classification algorithm it must be necessary to remove all those attributes from datasets who later on acts as noisy attributes. In this research work, we can implement preprocessing steps and implemented the classification rule algorithms namely Multi-layer perceptron are used for classifying datasets which are uploaded by user. By analyzing the experimental results it is observed that the Multi-layer perceptron technique has yields better result than other techniques.

9.2 FUTURE ENHANCEMENT

In future we tend to improve efficiency of performance by applying other data mining techniques and algorithms.

OLEANDER: FEATURE SELECTION AND CLASSIFICATION METHOD FOR PREDICTING HUMAN THIRST

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EXTERNAL EXAMINER

ABSTRACT

Human dehydration is a widespread and serious health issue that can lead to various problems such as headaches, dizziness, decreased cognitive function, and even heat stroke. Therefore, accurate prediction of dehydration is critical in preventing and treating this condition. In this study, we aim to provide a solution to this problem by proposing the Oleander algorithm for human dehydration prediction. The Oleander algorithm is a machine learning-based approach that incorporates advanced techniques and algorithms to improve the accuracy of dehydration predictions. The algorithm was compared with two commonly used machine learning algorithms, KNN (K-Nearest Neighbors) and SVM (Support Vector Machine), in terms of prediction accuracy. Our research builds upon previous studies and advances the state of the art by incorporating novel techniques and algorithms. In our experiments, the Oleander algorithm outperformed the KNN and SVM algorithms in terms of prediction accuracy. Our methodology for implementing the Oleander algorithm is explained in detail, including the data pre-processing, feature extraction, model training, and evaluation procedures. We believe that our proposed methodology is suitable for deployment in real-world applications and will help to prevent and mitigate the adverse effects of dehydration by providing more accurate predictions of this condition. In conclusion, the Oleander algorithm is a promising solution for human dehydration prediction that provides higher accuracy compared to traditional machine learning algorithms. Our research will contribute to the field by advancing the state of the art in human dehydration prediction and providing a useful tool for healthcare professionals and individuals alike.

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The machine learning-based solution for dehydration prediction is a valuable tool for the early detection and prevention of dehydration. The high accuracy of the Oleander algorithm, the convenience of the online website, and the user-friendly interface make this solution accessible and useful for people to monitor their hydration status. The author's contribution to the public health field through this project highlights the potential of machine learning in solving real-world problems and improving public health outcomes. The comparison between the Oleander algorithm and other algorithms showed that the Oleander algorithm is a reliable and effective solution for monitoring hydration status and its technique makes it superior in predicting human dehydration status compared to other algorithms. One possible limitation of the Oleander algorithm is its reliance on self-reported fluid intake data, which may not always be accurate or reliable. In addition, the algorithm's accuracy may be impacted by individual variations in physiological responses and environmental conditions, making it less effective in some cases. To improve the Oleander algorithm's performance, additional physiological and environmental parameters could be included in the feature extraction process, such as heart rate, blood pressure, and environmental altitude. The algorithm could also be combined with wearable sensors or other technologies to improve the accuracy of the data input. Finally, the algorithm could be further refined and validated through additional testing and validation with larger and more diverse datasets.

MRI IMAGE BASED DIAGNOSIS MODEL FOR ALZHEIMER'S DISEASE USING VGG16

A PROJECT REPORT

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

People over the age of sixty are disproportionately affected by Alzheimer's disease (AD), making a few of the most typical kinds of dementia. Very few reliable diagnostic methods exist at this time for detecting AD in its earliest stages in clinical practice. There is currently no treatment or cure for Alzheimer's disease, and clinical trials for potential treatments are very likely to fail. Very mild dementia, mild dementia, and moderate dementia are all distinct stages of Alzheimer's disease. It's not easy to see the decline into absolute health lessness, memory loss, and dependence on others that comes with these early stages of dementia. By training the network using a collection of brain imaging data, VGG 16 may be used to generate predictions for the diagnosis of Alzheimer's disease (AD). This method relies on the observation that people with AD exhibit distinct patterns of brain activity and structural change. An extensive database of MRI scans from people with Alzheimer's disease (AD) and healthy controls may be employed to demonstrate VGG 16 network to recognize tell-tale signs of the illness. After the image has been trained, it can categorize people as having or not having AD based on brain imaging data. Patients can also make appointments with these doctors who specialize in dementia, and doctors can also recommend the best medications for the disease which have been found. The proposed system has the potential to improve early detection and monitoring of Alzheimer's disease, leading to improved patient outcomes.

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CONCLUSION AND FUTURE ENHANCEMENT

Alzheimer's disease is a progressive neurodegenerative disorder that affects memory, thinking, and behaviour. The early detection and accurate diagnosis of Alzheimer's disease are crucial for timely intervention and effective management. Brain MRI (Magnetic Resonance Imaging) is a commonly used imaging modality for the diagnosis and prediction of Alzheimer's disease. MRI scans can detect structural changes in the brain, such as atrophy in specific regions, which are characteristic of Alzheimer's disease. Advanced machine learning techniques, such as deep learning, have been used to analyze MRI scans and predict Alzheimer's disease with high accuracy. These models can detect subtle changes in brain structure and identify biomarkers that are associated with the disease. While these models show promising results, further research is needed to improve their accuracy and reliability. Additionally, the use of MRI scans for Alzheimer's disease prediction should be coupled with clinical evaluation and other diagnostic tests to ensure accurate diagnosis and appropriate treatment. In conclusion, MRI scans, coupled with advanced machine learning techniques, hold promise for the early detection and prediction of Alzheimer's disease, but further research is needed to fully realize their potential. In future we can extend the framework with combination of different imaging modalities, such as MRI, PET, and CT scans, may provide more comprehensive information about the brain and improve the accuracy of Alzheimer's disease prediction. Incorporating clinical data, such as cognitive test scores and medical history, into machine learning models can improve the accuracy of Alzheimer's disease prediction and facilitate clinical decision-making.

STUDENT INFORMATION SYSTEM BASED ON FACE BIOMETRICS WITH QR CODE USING DEEP LEARNING TECHNIQUES

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

Personal identification is considered an important aspect in recognizing the identity of a particular individual. A person's identity can be validated through the traditional or biometricmethods. The application of biometric recognition in personal authentication enables the growth of this technology to be employed in various domains. The implementation of biometricrecognition systems can be based on physical or behavioural characteristics, such as the iris, voice, fingerprint, and face. Currently, the attendance tracking system based on biometric recognition for education sectors is still underutilized, thus providing a good opportunity to carry out interesting research in this area. As evidenced in a typical classroom, educators tendto take the attendance of their students by using conventional methods such as by calling out names or signing off an attendance sheet. Yet, these types of methods are proved to be time consuming and tedious, and sometimes, fraud occurs. As a result, significant progress had beenmade to mark attendance automatically by making use of biometric recognition which uses theface biometric for authentication with Quick Response code. Student details are registered andstored in database as in the form of QR code for security purpose. At the time of attendance tracking, student scans the QR code and then verifies the student with unique Face biometrics.Face recognition can be done with the help of machine learning algorithm. It can be useful to avoid fake attendance and improve automated system in real time college environments. And also extend the framework to view the mark details and also view the fees details. Experimentalresults shows that the real time interface with student details and will implement .NET framework as front and SQL Server as Back end.

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CONCLUSION AND FUTURE ENHANCEMENT

In this project, we reviewed face recognition technique for still images and video sequences. Most of these existing approaches need well-aligned face images and only perform either still image face recognition or video-to video match. They are not suitable for face recognition under surveillance scenarios because of the following reasons: limitation in the number (around ten) of face images extracted from each video due to the large variation in pose and lighting change; no guarantee of the face image alignment resulted from the poor video quality, constraints in the resource for calculation influenced by the real time processing. So we can propose a local facial feature-based framework for still image and video-based face recognition under surveillance conditions. This framework is generic to be capable of vide to face matching in real-time. While the training process uses static images, the recognition task is performed over video sequences. Our results show that higher recognition rates are obtained when we use video sequences rather than statics based on HAAR cascade algorithm and Convolutional Neural network algorithm. And also provide QR code-based authentication system with fees information system. Evaluation of this approach is done for still image and video-based face recognition on real time image datasets with SMS alert system

FUTURE ENHANCEMENTS

In future work, we can extend the framework to implement various algorithms to provide still to video face matching with improved accuracy rate. Videos provide an automatic and efficient way for feature extraction to reduce the features based on dimensionality reduction.

OFFENSIVE COMMENTS ANALYSIS USING TEXT MINING AND DEEP LEARNING ALGORITHM

A PROJECT REPORT

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

Everyone has the right to freedom of speech. However, this right is being misused to differentiate and attack others, physically or verbally, in the name of free speech. This discrimination is known as hate speech. Hate speech can be well-defined as language used to express hate towards a person or a group of people based on characteristics such as race, religion, ethnicity, gender, nationality, disability and sexual orientation. It can be expressed as speech, writing, gesture or display those attacks individual because of the group they belong to. In recent years, hate speech has been increasing in-person and online communication. The social media as well as other online platforms are playing a wide role in the breeding and spread of hateful content eventually which leads to hate crime. The increasing usage of social sites and information sharing has specified major benefits to humanity. However, this has also assumed rise to a variety of challenges including the spreading and sharing of hate speech messages. Thus, to solve this emerging issue in social media sites, recent studies employed a variety of machine learning and deep learning algorithms with text mining algorithm to automatically detect the hate speech messages on real time datasets. Hence, the aim of this project is to analyses the comments on social networks using Natural Language processing technique (NLP) and Deep learning algorithm named as Back propagation neural network algorithm. Using NLP technique, can extract the keywords from user generated content and implement Back Propagation neural network to classify the text whether it is positive or negative. If it is negative means, automatically block the comments as per user wish and also block the friends based on pre-defined threshold values. Experimental results shows that the proposed framework implemented in real time social network site with improved notification system.

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We demonstrated a solution to filter unwanted messages from OSN walls in this project. The system s a DL soft classifier to enforce a content-dependent filtered rules system that may be customised. The raction and selection of a set of characterising and discriminant features are the most time-consuming ects of developing a robust short text classifier. Furthermore, the handling of BLs improves the system's satility in terms of filtering choices. This project is the initial step in a larger one. The early promising ılts we've seen with the classification technique encourage us to keep working on other projects aimed mproving classification quality. The DL soft classifier is used in this system to filter out undesirable nals. BL is used to increase the filtering system's flexibility. We'll create a mechanism that takes a more nprehensive approach to determining when a user should be added to the BL. In addition to classification tures, the system includes a strong rule layer that uses a flexible language to construct Filtering Rules Rs), which allow users to decide which information should not be displayed on their walls. FRs can able a wide range of filtering criteria that can be combined and tailored to meet the needs of the user. s leverage user profiles, user relationships, and the output of the DL classification process to specify the ering criteria that will be used.

TURE ENHANCEMENTS

We plan to use similar strategies to infer BL rules and FRs in the future. We can enhance the mework in the future to implement this approach in a variety of languages with higher accuracy. Also cluded is the semi-supervised technique to unlabeled data analysis.

ADVANCED ENCRYPTION STANDARD TO PREVENT INTRUDERS IN EMAIL THROUGH CLOUD ENVIRONMENT

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INTERNAL EXAMINER

12/4

EXTERNAL EXAMINER

12/4/23

ABSTRACT

Data sharing and Protection are increasingly becoming an essential part of the daily life for end users to access different systems, services, and applications. Data disclosure frequently occurs in real-world E-mail services. Authentication and copyright protection of multimedia contents has always been a concern in secure data transfer media. The problem has become more critical with the increasing use of the Internet and digital technologies. However, making the protection of copyright is more complex and difficult. Digital watermarking came up as a solution for copyright protection problem. In proposed approach using Geofense technology both Watermarking and Encryption approach utilized for efficient content sharing. Watermarking is used to hiding the information such as hide secret information in digital media like images. Encryption techniques used to provide security to data. In encryption, the information is encoding to prevent unauthorized access and the unauthorized persons cannot read it. Finally, authorized user can extract decryption key with the help of embedded data verification process. Unauthorized or illegal access can identify, when user information does not match with embedded information. This proposed application helps to track the illegal access and avoid the content re-distribution in email environment. And also provide group data sharing based on rules-based approach using Machine learning algorithm and also provide acknowledgement system for mail delivery system.

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Propose a combined cryptography and watermarking techniques for secure transmission of information through E- Mail server. Discrete Wavelet technique is used for watermarking and AES cryptography is used for encryption purposes. The proposed technique is not only designed to provide copyright protection; however, it is proposed to provide integrity and authentication services for the media data based on Geofense framework. It includes the Machine learning algorithm to choose group data sharing based on location of group. Therefore, its target is not to be robust against modification attacks, but its target is to detect any illegal activities on the watermarked information. The ability of this technique is identified to check if the integrity and authentication of the shared information are corrupted at the receiver end. At the receiver side the proposed technique detected this modification and sent a message to the content provider regarding illegal distribution. And also provide mail delivery system to know about status of mail at recipient side.

FUTURE ENHANCEMENTS

In future, we can extend the framework to implement in various cryptography algorithms and implemented in various applications.

Criterion 1: Curricular Aspects

1.3 Curriculum Enrichment

1.3.4.1: Number of students undertaking field projects / internships / student projects

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PRODUCT DESCRIPTION USING AR

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ABSTRACT

Augmented Reality (AR) is a technology that provides intuitive interaction experience to the users by combining the real world seamlessly with computer-generated texts, images, animations, etc. An augmented world with functions designed for the intended application as well as the end user interaction experience is rendered to the user, resulting in efficient perception and creation for them. AR technology has evolved from one that only appears in science fiction movies to one that has been applied broadly in industries. Augmented Reality (AR) applications have demonstrated to be effective in the design review phase, when new products have been designed and require an evaluation. In fact, AR offers the possibility of evaluating 3D virtual models of these products, which can be easily modified, in their real context of use, without the need to produce real prototypes.

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As technology develops each and every day, there will be, which may create a huge development in the market too. Over project which has been developed on the basis of Augmented Reality, the purpose of this project is to make children learn through using augmented reality instead of the traditional method of learning. According to the survey the interior designer used to follow this trend and use the benefits of Augmented reality to make their work easier and more efficient. The application provides the customer perspective by showing the product details. If the customer wants to know how the products are manufactured ,they can view through this application.

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CHATBOT USING DATA SCIENCE

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ABSTRACT

Tools such as search engines and personal agents lack personality, evidenced by their mechanical acceptance of input and production of output, and practicality, demonstrated by their in-take of a single type of input, like keywords. To assuage these issues, techniques developed in Natural Language Processing (NLP) are used to produce a model of a system which combines a normal chatterbot with a more intelligent document categorization and retrieval system, thereby creating a new digital assistant system. The NLP techniques used in this project include topic modeling, recursive distributed representation, which is a form of connectionist modeling, and Weizenbaum's ELIZA. The first of the three is used to categorize a corpus of documents, while the other techniques are used to interact with the user. Reliance on keywords was found to be unavoidable but modeling the corpus to topics rather than a spatial distribution, such as that of frequency, proved to be successful at retrieving the relevant documents, to a certain extent. The topic modeling mechanism appeared to be highly influenced by the number of words in each document. The connectionist modeling was worse than ELIZA at recognizing trained phrases but was better at dealing with unknown words.

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Chapter 7

CONCLUSION

A chatbot is a software application used to conduct an on-line chat conversation via text, in lieu of providing direct contact with a live human agent. Designed to convincingly simulate the way a human would behave as a conversational partner, chatbot systems typically require continuous tuning and testing, and many in production remain unable to adequately converse, while none of them can pass the standard Turing test. The term ChatterBot was originally coined by Michael Mauldin in 1994 to describe these conversational programs. Chatbots are used in dialog systems for various purposes including customer service, request routing, or information gathering. While some chatbot applications use extensive word-classification processes, natural-language processors, and sophisticated AI, others simply scan for general keywords and generate responses using common phrases obtained from an associated library or database. Most chatbots are accessed on-line via website popups or through virtual assistants.

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STRANGER DETECTION USING PIR SENSOR IN IoT

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ABSTRACT

In the today's world the security of the home is the prime concern .The traditional method by using Raspberry pi of securing our home are easy to back and lead to theft. To overcome this problem , we are plan to design IoT based solution where we can setup a strange detection system by using PIR sensor .When someone enter into the home PIR sensor with GSM activates and send a alert message to the owner It also gives us the facility to monitor our home remotely and enables us to take appropriate action if anything goes wrong. I hope information will help the user to take necessary action. The need for stranger detection system nowadays is a serious demand. As the number of crimes are increasing every day, there has to be something that will keep us safe. We are all aware of the high end security systems present in the market but they are not easily available to everyone. We therefore intend to provide a solution by constructing a cost efficient electronic system that has the capability of sensing the motion of the intruders . The basic idea behind this project is that, it can be detected by electronic motion sensor. The project involves the use of Arduino, PIR motion sensor, GSM ,SIM card and a simple program. The sensor detect any motion in its permissible range around 10 meters .It will also send the signal to Arduino which processes the signal and detection message to the home owner where the entry of the unwanted intruders.

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CONCULSION

This Stranger Detection System is cheaply made from low-cost available components can be used to control more than hundred home appliances. This system is easily ustable at any home or office space. The designed home automation system was tested a mber of times and successfully control different home appliances (this is as long as the aximum power and current rating of the appliance does not exceed that of the used relay). nally, this home automation system can be also implemented over Bluetooth, Infrared and /IFI connectivity without much change to the design and yet still be able to control a variety f home appliances. Hence, this system is scalable and flexible.

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RAIN DETECTION WITH AUTOMATIC CLOSE OF WINDOW USING RAIN SENSOR IN IOT

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(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report **"RAIN DETECTION WITH AUTOMATIC CLOSE OF WINDOW USING RAIN SENSOR IN IOT"** is the bonafide work of **"DEEPIKA.M(20BIT4016),KARTHIKA.V(20BIT4048),MADHUMITHA.T(20BIT4053), MATHUMITHA.P (20BIT4055)"** who carried out the minor project work during the academic year 2022 under our supervision. Certified further , that to the best of our knowledge the work reported herein does not form part of any other minor project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate .

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ABSTRACT

It focuses on using rain sensor and it can be used in both residential and commercial settings. The ultimate goal of this project is to detect the rain using rain sensor. Everyone's life revolves around water. It will close the when it rains and prevent the rain water entering the house. It also helps to minimize the damage caused by the rain water. When the rain detector senses the rain, it closes the window. Every day new products areintroduced to the market that utilizes embedded computers in novel ways. In recent years,hardware such as microprocessors, microcontrollers. The mainelements that make embedded systems unique are its reliability and ease in debugging.Some of the main devices used in embedded products are Microprocessors andMicrocontrollers. Microprocessors are commonly referred to as general purposeprocessors as they simply accept the inputs, process it and give the output. In contrast, amicrocontroller not only accepts the data as inputs but also manipulates it, interfaces thedata with various devices, controls the data and thus finally gives the result. The projectRain detection with automatic closing of window using AT89S52 Microcontroller is anexclusive project that can control the servo motor according to the instructions given bythe above said microcontroller based on rain moisture sensor.

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CONCLUSION

Integrating features of all the hardware components used have been developed in it. Presence of every module has been reasoned out and placed carefully, thus contributing to the best working of the unit. Secondly, using highly advanced ICs with the help of growing technology, the project has been successfully implemented. Thus, the project has been successfully designed and tested.

"Rain detection with of window" is mainly intended to design an automatic wiper which operates automatically as soon as rain sensor gives the input. The aim is to design and develop a control system based an electronically controlled automotive rain operated motor is called RAIN DETECTION WITH AUTOMATIC CLOSING OF WINDOW. Rain operated motor is consists of conduction sensor (Tough sensor) circuit, Control Unit, wiper motor and glass frame. The sensor is used to detect the rain or water flow There is any rain on the class, the sensor senses the rain or flow water and giving the control signal to the wiper motor.
The rain detector can be used in both residential and commercial settings. It alerts users to the presence of rainfall and rain when it is forecasted to fall. It is activated by even the tiniest drop of water, allowing the user plenty of time to reclaim their belongings, cover windows, and, in some situations. In this project we cannot overcome the signal lost problem but in upcoming or future project we can solve it.

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A Minor Project Report

On

TRAFFIC MONITORING SYSTEM

Submitted in partial fulfilment of requirements for the award of the

Degree of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

Under the guidance of

Mrs R Sujatha AP/IT

Submitted By

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ABSTRACT

IOT based automated traffic signal monitoring as well as controller system that automates complete traffic signalling system automation and also allows for manual override over internet. The system uses arduino based circuit system to monitor traffic signal densities and transmits this data online over internet to the controllers. The system shows current densities to help monitor traffic conditions on roads. This puts forth a traffic signal monitoring and controller system that can be operated remotely over the internet from anywhere with manual override ability.

In our present life situation congestion in traffic is a big problem in faster lifestyle. One of the main reasons for the congestion is large delay or the time fixed for the red light in the signal. This idea tries to reduce the occurrence of congestion caused by traffic lights, to an extent. The proposed idea is based on Arduino. which are fixed at the possible direction on the traffic signal roads. Based on the number of vehicles count, the arduino decides and controls the traffic signal time duration as a result. The vehicle count produced from arduino data will be recorded. For correct classification, the record details can be stored to the controller by informing arduino to the computer system then it will send correct delay of signal into the LED lights.

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8. CONCLUSION

Nowadays, controlling the traffic becomes major issue because of rapid increase in automobiles and also because of large time delays between traffic lights. So, in order to rectify this problem, we will go for density based traffic lights system.

Advanced traffic signal controllers and control system contribute to the improvement of the urban traffic problem. The intelligent of traffic signal controller that is introduced in this project with powerful functions and hardware interface.

8.1 Future Enhancement

We will update this system with when a vehicle try to move even during red signal it will turn on an alarm to warn the driver of the vehicle and will send the alert to the traffic warden with the picture.

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WIRELESS DOOR LOCK SYSTEM USING BLUETOOTH

A MINOR PROJECT-III REPORT

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ABSTRACT

This project is about wireless door lock system. Physical keys and a lock are the basic requirements for a door. However, managing these keys has become cumbersome. To overcome this, we present a solution which is a smart and a secure way of remote-controlling the door using a smart phone. we are going to make a smart OTP-based locking system. This smart lock can generate a new password every time you unlock it, which further enhances your security level. This new device is much safer than the traditional key-based system and electronic wireless lock system. If you are still using the key-based system, you are likely to land in a big problem if your key gets lost or stolen. The electronic wireless lock system is not safe either. You might forget the password and there is also a high risk being hacked. For your safety and security, we bring to you a DIY smart lock that has the capability to remove all these security threats and problems.

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Thus "Smart Door Locking System using Arduino" is a modern successor of the conventional door locking system. The conclusion of the discussion of Smart Door Locking System using Arduino is the innovation created from then lock system with no more direct contact between the user and the lock. This system is very costeffective and easy to install. In conclusion, it was discovered that the project performed according to the specification and can be implemented. The use of the Arduino UNO micro -controller in this project allows for designs implicitly. Hence, the project can be achieved in lesser time compared to the other technique previously employed. This work proposes a secure locking/unlocking system based on a keypad and Arduino. Adding password to the Arduino side increase the system security. The system also has a feature for locking itself after delayed time. This system could be used to prevent houses, companies, institutions from stealing or losing the ordinary key.

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A Minor Project Report

on

INTERIOR DESIGN USING AR

Submitted in partial fulfilment of requirements for the award of the Degree of

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in

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ABSTRACT

AR technology is often used in applications that simulate an arrangement of furniture. Furniture, decor, and accessory manufacturers now have an opportunity to showcase their objects inside real interiors by creating the AR models of their items. AR furniture arrangement systems are useful for viewing room or building layouts without having to buy or move real furniture. However, such systems often require users to physically and frequently change their viewpoint of physical space, which requires manual manipulation of the scene, and are often limited to 2D tablet or phone interfaces. AR technology is valuable for interior design because of its ability to generate pop-up 3D models of projected structure, enrich them with additional digital content, and overlay them with animated simulations that analyze how people and equipment will eventually flow through and around them.

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Chapter 6

Conclusion and Future Scope

6.1. Conclusion

The Augmented Reality Technique has become a hot issue in the field of computer vision technology, with its different user experience, slowly and deeply changing people's life, which includes many different fields such as education, medical, advertising and so on. This research mainly used the second method to research, realized the Virtual Home Augmented Reality System, which can support auxiliary information to people when decorating and selecting furniture, help users feel the placement of furniture in the room in advance before putting them in. According to the survey the interior designer used to follow this trend and use the benefits of Augmented reality to make their work easier and more efficient. This application provides the customer perspective by showing the needy objects of the room. If the customer wants to know how his/her future room looks alike they can view through this application.

6.2. Future Scope

The AR/VR devices of the future will provide personalized, accessible, and well-designed experiences. In my opinion, in three years we are going to see new AR glasses with LTE capabilities that will become an alternative to the smartphone. Even the smallest details at each level of the planning process may be efficiently communicated to the customer using interactive 3D models, reducing approval time. Perhaps the future will bring improvements to services like Hutch too, combining AR with human touch to deliver customized AR interior design and architectural services.

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EARTHQUAKE DETECTION AND ALARM SYSTEM

A MINOR PROJECT REPORT

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in

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ABSTRACT

An Earthquake alert system can be implemented by means of an IOT in wireless sensor network (WSN). This type of disaster may cause the severe damages like killing people's life and damages the buildings. An earthquake is what happens when two blocks of the earth suddenly slip past one another. So, we have developed the project on the earthquake detection and alarm system and that project will alert the people before the earthquake occurs. Intense ground motion following an earthquake represents a key hazard to the large number of people living in earthquake-prone regions, and can cause substantial damage to roads, buildings and other infrastructure. Providing accurate and reliable Earthquake Early Warning (EEW) alerts prior to the most intense ground shaking would help minimize damage and loss of life. While several algorithms, which use early waveform observations (such as peak amplitudes) to predict later shaking events, have been developed as EEW systems, their capabilities have yet to be tested in real time and in response to physical seismic and ground motion data

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CONCLUSION

8.1 CONCLUSION :

The proposed early earthquake warning system by using the smart way for transferring the alert signal to smart phones is accomplished by the trending buzz term IOT. The hardware portion plays the role of detecting and reading the signal successfully. Thereby the software portion is to deliver the alert signal to the human which is done by the trending and most reliable term IOT. The Arduino program helps greatly to interface the hardware kit and to control and monitor the reading by this software. Thus each sensors connected to the others are ended up connected to the gateway where it is interfaced to the Arduino Program. The platform is created in such a way that the sensor reading is monitored in terms of numerical and graphical representation. And the earth vibrated reading values can be viewed in the database which the software does for the reference of the user. It creates a platform to provide a link between the IOT cloud and the warning signal. Thus the Arduino Program helps to achieve the early warning signal reaches the public. Our project helps the people to get the alert for every person in that area individually and alert the people.

8.2 FUTURE SCOPE :

Earthquake detection systems can be installed in homes, hotels and big buildings and in the earthquake prone areas. There is a lot of scope in the IOT based Earthquake Detection system as it can be used for various sectors that can be any Commercial area, buildings, hotels, hospitals, etc. The Seismic Sensor and Vibration Sensor is helpful to identify the earthquake. The scope of the proposed system is bright. This project is very fast and user friendly.

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ANNEXURE-1

A MINOR PROJECT REPORT

HEALTH MONITORING SYSTEM

Submitted in partial fulfilment of requirements for the award of the

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BACHELOR OF TECHNOLOGY

in

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ABSTRACT

The health monitoring system has emerged as one of the most vital system and became technology oriented from the past decade. Humans are facing a problem of unexpected death due to various illness which is because of lack of medical care to the patients at right time. The primary goal was to develop a reliable patient monitoring system using IoT so that the healthcare professionals can monitor their patients, who are either hospitalized or at home using an IoT based integrated healthcare system with the view of ensuring patients are cared for better. A mobile device based wireless healthcare monitoring system was developed which can provide real time online information about physiological conditions of a patient mainly consists of sensors, the data acquisition unit, microcontroller (i.e., Arduino), and programmed with a software (i.e., JAVA). The patient's temperature, heart beat rate and The Android device and the Arduino UNO get connected by using Bluetooth terminals. Bluetooth is used to connect between two devices, so by using Bluetooth the Arduino and Android devices were get connected.Thus, IoT based patient monitoring system effectively monitor patient's health status and save life on time.

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CHAPTER-8

& CONCLUSION AND FUTURE ENHANCEMENT:

IoT data is one of the meaningful ways for keeping the full health record. several providers support the process of collection. However, the process of valuable data can be helpful to manage the process. There are several cases within the context of full patient chart along with timeline. In this perspective, it is important to make the process and collection meaningful patient data between the visits. On the contrary, there are several cases, where the data are collected from wearable devices.

Data security may be the causes for concerns in implementing IoT in healthcare. The food and drug administration is the procedure of defining the common security practice as well as standards for the medical devices.

Hence, continuous change in hardware as well as connectivity technology is the majorissue faced while using IoT in healthcare.IoT devices can collect, report and analyze the extensive data collected in short time, cutting the need of its storage. This will allow healthcare providers in focusing on relevant data required to treat the patient. The data-driven insights will speed up the decision-making process of the doctors

LIGHT AUTOMATION SYSTEM

A MINOR PROJECT REPORT

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ABSTRACT

The Proposed Project is about Light Automation System which we can done under the domain of Internet of Things (IOT). The rapid development in electric technology has introduced enormous improvements into the lives of people. Nonetheless, a considerably detrimental effect is scarcity of resource and deterioration of environment because of the large consumption of electricity. In contemporary societies, people are unable to live without electricity, whereby lighting consumption has been taking a sizeable proportion of electricity use in modern life, both in commercial and residential buildings. As of now, the requirement of lighting consumption is growing fast with the expansion of globalization. Light Automation System using Arduino is a very useful project as you need not worry about turning on and off the switches every time you want to turn on the lights. Light Automation System project can be considered as one major application of the PIR Sensor.

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Chapter – 5

Conclusion and Future Enhancement

5.1 Conclusion

The conclusion of overall project was somewhat successful. Hereby we come to an end of or project "LIGHT AUTOMATION SYSTEM". This project gives us an idea to detect the motion. This project can be used anywhere either at home or offices. This is also cost efficient. Thus by this attempt of ours circuit can be used as protecting device and can be used for security also. It can be used as a kind of antitheft device. It is very much cost efficient and can be used easily and efficiently. Automaton of the home may have once seemed like a peculiar and unlikely concept, but as our devices become smarter and more investment is poured into the development of IOT consumer products, we are likely to see increased competition on further innovation in the field.

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A Minor Project Report

On

AGRO PRODUCTS SELLING

Submitted in partial fulfilment of requirements for the award of the

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in

INFORMATION TECHNOLOGY

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ABSTRACT

In our project, the login page is given a username and password as login credentials. After the completion of successful login, he or she will be able to buy the products or sell products. According to the user choice, he or she will be redirected to customer page or seller page. The login criteria include username and password. It also includes whether he or she is customer or farmer. A new person he or she asked to sign up. The agro product selling is used to overcome the entire problem which the farmers are facing currently, and making complete benefit for the farmer to make a good revenue.

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CHAPTER 6

CONCLUSION AND SCOPE FOR FUTURE WORKS

The "Agro Products selling" Agri e-commerce – the buying and selling of agricultural product. online can address notable challenges and inefficiencies in the agriculture supply chain by streamlining farmers' access to the customer and creating new links between steps in the value chain. This is especially true in developing countries where online platform can enable farmers to bypass intermediaries and sell directly to agribusinesses, retailers, consumers and other customer groups, leading to increased efficiency of the supply chain and generating fair incomes, as well as a transaction history for farmers.

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ANNEXURE-I

A Minor Project Report

On

AUTOMATED PET FEEDER

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ABSTRACT

At present automated technology is a trend and is easy to access, user friendly and easy tomonitor. Having pet can be an enjoyment in our life. In this paper a prototype has been proposed to solve the problem of providing food and water for all types of pets when owner is residing away from home such as lockdown situation. By the application of this prototype, the owner can supply food and water to the pet at their preferred scheduled time. The system proposed is controlled through an ARDUINO. A conical structure created using ply board (collected from waste material) for reserving the pet's food. A servomotor has been interfaced to control the outflow of the food through a PVC pipe connected to the bowl. The bowl is placedon a load cell to inspect the weight of food. The owner can assign the timing and quantity of food through a keyboard to supply food depending on the instantaneous weight of the food in the bowl. By using float sensor water level in the container has been monitored and refilled.

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CHAPTER-8

Conclusion

Auto pet feeder is the solution for those who love to keep pet in house but because of busy schedule they may not be able to provide food to their beloved pets at fixed time. This prototype can be used to release food by inputting the chosen time and weight. The time and weight both are adjustable and can be given many at once. When the time and weight are selected through keyboard, the stored food will automatically come through the pipe at that assigned time and will be collected in the bowl. The load cell under the bowl will operate the preferred amount of the food. This project is completely made with wastage material, so it's also eco-friendly and handy. Thus, the proposed prototype is expected to have immense opportunity to serve the said purpose in present society, because in this pandemic situation lockdown is happening at any time, so many people can be stuck outside and not be able to come back home so that they can treat their pets and since we are putting attention to build this project at reduced cost, so that the affordability of the consumer shall be very high in the market.

CV ANALYSIS USING MACHINE LEARNING

A MINOR PROJECT REPORT

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In partial fulfillment of the requirements for the

degree

of

BACHELOR OF TECHNOLOGY

in

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ABSTRACT

This project is used to recruit the candidates. It is a web-based application that mainly focuses on identifying the personality of an individual candidate who applies for a particular designation. In this system, candidate can register through the registration option available in the particular institution website. The candidate can attend the online test process when they got shortlisted from the registration process. HR manage the shortlisted candidate history and their assessment process.HR can add the assessment questions for shortlisted candidates. HR will provide reply about the candidate's result and performance. After the completion of the test process, HR sends the assessment result of an individual candidate's email. This can be achieved with web development technologies like HTML, CSS, PhP, Java script and using the database (MySQL).

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CONCLUSION AND FUTURE ENHANCEMENT

9.1 CONCLUSION

We have presented in this paper, the prediction of human personality by using standard questionnaires that is provided by the HR Department according to the job selection criteria. Candidates fill an online Curriculum Vitae (CV) which can be later on viewed by the Admin. Candidates are provided with separate set keys for attempting the aptitude and personality based tests. CV analysis is performed using the CV filled by the candidate in the website. A machine learning approach has been used in analysis of data through content and collaborative filtering. Further the test scores help in deciding the qualities in the candidates. Thus, the CV is shortlisted for the recruitment process and a fair and appropriate decision is made by HR department. Also data visualization model determines the overall performance of the candidates based on various factors. This analysis helps the admin department to calculate the proficiency of candidates accurately.

9.2 FUTURESCOPE

We are presenting a highly efficient, costs effective recruitment system. The system collects and analyzes the data from the websites. We are addressing the problem regarding recruitment of right candidate for right post in economical way. In this, we have implemented a system which helps organizations to hire eligible candidates. Because of this system, HR can directly search for the required resumes in a fraction. In future scope, the system can be extended by including aptitude tests, language proficiency tests etc.

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A Minor Project Report

on

AUGMENTED REALITY IN SURGERY

Submitted in partial fulfilment of requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHONOLOGY

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ABSTRACT

Digital technologies and computer driven technologies have become an integral part of the surgeries and patient care, as within the entire healthcare system. Augmented reality (AR) is one such technology that has been around for a while but the utilization in healthcare has not been at par with its potential. Error-free surgical procedures are crucial for a patient's health. However, with the increasing complexity and variety of surgical instruments, it is difficult for clinical staff to acquire detailed assembly and usage knowledge leading to errors in process and preparation steps. We have proposed, a process integrated manual, highlighting the correct parts needed, their location, and step-by-step instructions to combine the instrument using an augmented reality head-mounted display.

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CONCLUSION AND FUTURE SCOPE

7.1 Conclusion

- The present literature suggests an increasing interest of surgeons regarding employing augmented reality into surgery leading to improved safety and effectiveness of surgical procedures.
- The beginners in Surgery can acquire a knowledge of the procedure of tools used in surgery in an easy way at any time.
- The surgeons can become proficient in their specified fields of working and understanding the depth of the concepts.
- It is not only a boon for surgeons but also for exploratory learners and teaching institutions by providing the surgery tools credentials.

7.2 Future Scope

- If our project has been developed further, we can render it as an application or a website for educational purpose with login credentials.
- With the help of Research and development team we can patten our project which has a vast in demand for exploratory learners and teaching institutions.
- It is not only helpful for surgeons or medical students but also for common persons to easily understand the concepts and how to handle the tools in a proper manner.
- So, if they face any situations like accidents, they can provide a first aid even though they know about surgeries, they can handle the tools.

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PRODUCT DESCRIPTION USING AR

A MINOR PROJECT REPORT

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ABSTRACT

Augmented Reality (AR) is a technology that provides intuitive interaction experience to the users by combining the real world seamlessly with computer-generated texts, images, animations, etc. An augmented world with functions designed for the intended application as well as the end user interaction experience is rendered to the user, resulting in efficient perception and creation for them. AR technology has evolved from one that only appears in science fiction movies to one that has been applied broadly in industries. Augmented Reality (AR) applications have demonstrated to be effective in the design review phase, when new products have been designed and require an evaluation. In fact, AR offers the possibility of evaluating 3D virtual models of these products, which can be easily modified, in their real context of use, without the need to produce real prototypes.

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Chapter 7

CONCLUSION

As technology develops each and every day, there will be, which may create a huge development in the market too. Over project which has been developed on the basis of Augmented Reality, the purpose of this project is to make children learn through using augmented reality instead of the traditional method of learning. According to the survey the interior designer used to follow this trend and use the benefits of Augmented reality to make their work easier and more efficient. The application provides the customer perspective by showing the product details. If the customer wants to know how the products are manufactured ,they can view through this application.

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PRICE PREDICTION OF PREOWNED CARS USING MACHINE LEARNING

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ABSTRACT

The car price prediction has been a high-interest research area, as it needed recognizable effort and knowledge of the field expert. The proposed work mainly focuses on working of three different kind regression algorithms which are used to predict price of a used car. In this project, the considered number of distinct attributes which are examined for the reliable and accurate prediction. To build a model for predicting the price of used cars the project uses three different kinds of machine learning techniques which comes under supervised machine learning type of algorithm which are linear regression, lasso regression and ridge regression respectively. Car price prediction is anyhow interesting and popular problem. Accurate car price prediction involves expert knowledge, because price usually depends on many unique features and factors. Generally, most important ones are brand name and model, years, KMs driven and mileage. Distinct features like exterior color, door number, type of transmission, dimensions, safety, air condition, interior, whether it has navigation or not will also results in the car price. In the suggested project, a dissimilar and unique methodologies are deployed in order to achieve higher precision of car price like Car brand, Model Name, Year, Selling Price, KMs Driven, Fuel Type. The main objective is to predict the price of the used car by just clicking the predict button. The user can easily view the price or can know the accurate price of the used car. The dataset comprises several car models and the price details. The project is based on Python 3.9.6 with the packages of NumPy, pandas, scikit-learn, tensor flow.

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7. CONCLUSION AND FUTURE WORK

7.1 CONCLUSION

Car price prediction will be a challenging task because of the high number of attributes that should be considered for the accurate prediction. The most important step within the prediction process is collection and pre-processing of the information. During the research, Car data collected from kaggle.com is converted into CSV form and used for building the machine learning algorithms. Three algorithms which are Linear, Lasso and Ridge Regression were utilized in this project. The data was divided into two parts training and testing purpose by SVM classifier (Support Vector Machine). i.e., 75% of data was used for training purpose and 25% of data was used for testing purpose of the machine learning. The accuracies of the three machine learning models were checked and compared with one another. The Final result was predicted consistent with the algorithm which achieves higher accuracy. The main drawback of this project was a smaller number of records that have been utilized. As future work, more information will be added and utilize further advanced developed methods like Random Forest, ANN (Artificial Neural Network), CNN (Convolutional Neural Network) with a better user computer user interface experience.

7.2 FUTURE ENHANCEMENT

As a part of future work, we aim at the variable choices over the algorithms that were used in the project. We could only explore two algorithms whereas many other algorithms which exist and might be more accurate. More specifications will be added in a system or providing more accuracy in terms of price in the system i.e.

- 1) Horsepower
- 2) Battery power
- 3) Suspension
- 4) Torque
- 5) Top Speed

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AUGMENTED REALITY BASED SMART LEARNING

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ABSTRACT

AR in education is receiving a lot of education worldwide and it's a new paradigm in our global education. There are many different ways for people to be educated and trained with regard to specific information and skills they need. These methods include classroom lectures with textbooks, computers, handheld devices, and other electronic appliances. The choice of learning innovation is dependent on an individual's access to various technologies and the infrastructure environment of a person's surrounding. A book can become "magic" by adding Augmented Reality technology especially young children, can read books in more interactive and realistic ways by superimposing 3D rendered models onto books with AR technology. The students from primary education to higher secondary use DIKSHA app for studying purpose in which we have barcode scanner in textbooks with the help of that barcode we scan it and students will view the relevant videos. By using barcode scanner in DIKSHA, it takes long time to view the videos which is complex for students to move through multiple tabs which also takes time as well asks many details relevant to that like name of the subject, medium in which we study, name, class. For that situation, we've came with an AR concept to overcome the problem. "AUGMENTED REALITY BASED SMART LEARNING" is to create a smart learning platform for students here instead of using barcode scanner we directly scan the image and the relevant video will be displayed for the students which will be very useful for the students to learn and grasp the concepts very easily and efficiently in a better way.

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CONCLUSION

As technology develops each and every day, there will be lots and lots of smart education platforms which helps to enhance students knowledge as our application is also one of that. The results showed that using an augmented reality mobile application, increase the learning motivation among students. It improves multiple learning concepts with real time environment and scenarios in an interactive manner. Thus our AR application provides smart learning environment for students to enhance their skills and knowledge.

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BLUETOOTH BASED HOME AUTOMATION USING ARDUINO

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ABSTRACT

Technology is a never ending process. To be able to design a product using the current technology that will be beneficial to the lives of others is a huge contribution to the community. This project presents the design and implementation of a low cost but yet flexible and secure cell phone based home automation system. The design is based on a standalone Arduino BT board and the home appliances are connected to the input / output ports of this board via relays. The communication between the cell phone and the Arduino BT board is wireless. This system is designed to be low cost and scalable allowing variety of devices to be controlled with minimum changes to its core. Password protection is being used to only allow authorized users from accessing the appliance at home.

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CONCLUSION

- Home Automation is undeniably a resource which can make a home environment automated. People can control their electrical devices via these Home Automation devices and set up controlling actions through Mobile.
- It can be concluded that Home Automation System using Arduino has been successfully designed and prototyped. Moreover, implementation of wireless Bluetooth connection gives a simple way of system installation.
- This setup can further be developed into IOT project using Ethernet Arduinoand Wifi-module.
- So it can be controlled from anywhere around globe having feedback from device to further improve energy savings.

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MOBILE EDUCATION SYSTEM USING AUGMENTED REALITY

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ABSTRACT

The project is about **MOBILE EDUCATION SYSTEM USING AUGMENTED REALITY**. Everybody deserves a proper education. However, there are parents out there struggling to teach their kids to read and write due to their inability to teach them properly. Therefore, this project is going to explore the possibility of usingaugmented reality combined with storytelling as a medium to teach children to learn alphabet. With the existence of variety of students around us, problems tend to occurs when the teaching and learning process are going on. Sometimes they just refuse to learn altogether. These problems support the designation of this project which is to overcome the cause of illiterate among adults by starting early in terms of learning alphabet using augmented reality and storytelling. Exploring further into the project, analysis, planning, design, testing and implementation are going to be carried out to support the progress ofthis project. The purpose of this project is to make children learn through AR.

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CONCLUSION

As technology develops each and every day, there will be, which may create a huge development in the market too. There is our project which has been developed on the basis of Augmented Reality, the purpose of this project is to make children learn through using augmented reality instead of the traditional method of learning and also learn pronunciation as easily.

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VIRTUAL FOOD MENU FOR MKCE

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ABSTRACT

Augmented reality (AR). is the integration of digital information with the user's nvironment in real time.AR technology is the latest technology that is being used widely in lmost every sector. The aim of connecting smart-phones and Augmented Reality technology is uge using it in a proper way provide greater benefits. The main objective of the application is to eplace paper-based menu cards with digital AR application. This makes the users to understand chedule which is followed in the hostel of MKCE. It is feasible for the clients to simply point heir mobile phones in the days of the week to show the menu.AR food menu displays virtual ood consisting of virtual image in digital rendering photographs of food on the plate. It gives ew experience to the user who is visiting the hostel.

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CHAPTER 7

CONCLUSION

As technology develops each and every day. This application provides good user interaction and environment. This application is also helping in remembering of the food menu in a easier way. rise of technology and new developments day-by-day, it is necessary to evolve and find various the technologies. A virtual based menu on AR can provide visitors with a superior experience ser will be able to learn more about the food and make a clear view.

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COMMUNICATION APPLICATION DEVELOPMENT USING FLUTTER

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Certified that this project report "**COMMUNICATION APPLICATION DEVELOPMENT USING FLUTTER**" is the bonafide work **of RAJESH.G (20BIT4070), REVANTH.V (20BIT4071), VIGNESH.V (20BIT4102), ARAVINTH.S (20BIT4302)** who carried out the minor project work during the academic year 2021-2022 under our supervision. Certified further, that to the best of our knowledge the work reported herein does not form part of any other minor project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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ABSTRACT

This application runs on Android and iOS mobile devices. This app requires a cellular mobile number to sign up. This app is used for the communicate among the peoples. Our mobile application now supports sending and receiving a variety of media: text, photos, videos, documents, and location, as well as voice calls. Some of your most personal moments are shared with this App, which is why we built end-to-end encryption into our app. To control the unusual content to monitor that we have admin control through another app, to control the user activities to monitor the chats and medias we have the admin control. The data entered by the customers are saved in the cloud storage. We have made a new cloud section in the google data server for this application and our data are securely in that server. To avoid healthy issues for the users we add the new feature in this app that we create the new theme to avoid the color blindness and using the admin app we have whole access through this within us.

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CHAPTER-3

CONCLUSION AND FUTURE WORK

3.1 CONCLUSION

Our project on Trendy talks based on the Flutter (SDK) was successfully executed. This application we have developed that can be perform in different platforms such as Android, IOS because of using Flutter. The main motive of our application is "safe and secure". The contents you have shared and received was maintained safely and believe us that your privacy should not be misused under any situation.

3.2 FUTURE WORK

In future, developer can extend the framework to implement in various Security option and Updates GPS information (Live location) and also add in google search engine for Easy to search.

M.KUMARASAMY
COLLEGE OF ENGINEERING

FURNITURE FOR HOUSE DECOR USING AUGMENTED REALITY

A MINOR PROJECT REPORT

Submitted by

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In partial fulfillment of the requirements for the degree of

BACHELOR OF TECHNOLOGY

in

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ABSTRACT

The "FURNITURE FOR HOUSE DECOR USING AUGMENT REALITY" project is about when the customer is Purchasing products for interior design always has a problem that the purchased products may not satisfy customers because they cannot put them in their place before buying. For this purpose, we have used an android application called 'AR Furniture' with the use of Augmented Reality technology for design and decoration that will help customers visualize how furniture pieces will look and fit in their homes and also can provide details of products to support customer decision. This application is a prototype to find out factors affecting the design and tracking of AR applications.

AR technology is often used in applications that simulate an arrangement of furniture. We here will discuss a system supported by Augmented Reality for Home Decoration, which supports real-time tracking without Identification Markers, the system uses FAST corner detection. To solve this problem, this paper proposes a method that can add virtual objects to the real environment (Augmented Reality) using a camera. Augmented Reality furniture arrangement systems are useful for viewing furniture in rooms or building layouts without having to buy or move real furniture in. However, such systems often require users to physically and regularly change their viewpoint of the physical space, which needs manual manipulation of the scene and is often limited to a 3D tablet or phone interface. To help address this problem, we have developed a system that automatically calculates the most suitable viewpoint to improve understanding of the room layout as a whole, and allows the user to easily transition to that viewpoint.

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8.CONCLUSION

According to the survey the interior designer used to follow this trend and use the benefits of Augmented reality to make their work easier and more effective. Interior designing Applications using Augmented Reality technology started to develop the real estate industry. This application provides the customer perspective by showing the needy objects in the room. If the customer wants to know how his/her future room looks alike they can view it through this application. As it is very beneficial for the interior designer to show the designs earlier and can make the changes before the work starts.

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EMAIL ENCRYPTION AND DECRYPTION

A MINOR PROJECT REPORT

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ABSTRACT

Data sharing and Protection are increasingly becoming an essential part of the daily life for end users to access different systems, services, and applications. Data disclosure frequently occurs in real-world E-mail services. Authentication and copyright protection of multimedia contents has always been a concern in secure data transfer media. The problem has become more critical with the increasing use of the Internet and digital technologies. However, making the protection of copyright is more complex and difficult. Digital watermarking came up as a solution for copyright protection problem. In proposed approach using Geo-fense technology, both Watermarking and Encryption approach utilized for efficient content sharing. Watermarking is used to hiding the information such as hide secret information in digital media like images. Encryption techniques used to provide security to data. In encryption, the information is encoding to prevent unauthorized access and the unauthorized persons cannot read it. Finally, authorized user can extract decryption key with the help of embedded data verification process. Unauthorized or illegal access can identified, when user information does not match with embedded information. This proposed application helps to track the illegal access and avoid the content re-distribution in Email environment. And also provide group data sharing based on rules based approach using Machine learning algorithm and also provide acknowledgement system for mail delivery system.

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CHAPTER-3

CONCLUSION AND FUTURE WORK

3.1 CONCLUSION

Propose a combined cryptography and watermarking techniques for secure transmission of information through E- Mail server. Discrete Wavelet technique is used for watermarking and AES cryptography is used for encryption purposes. The proposed technique is not only designed to provide copyright protection; however, it is proposed to provide integrity and authentication services for the media data based on Geofense framework. It includes the Machine learning algorithm to choose group data sharing based on location of group. Therefore, its target is not to be robust against modification attacks, but its target is to detect any illegal activities on the watermarked information. The ability of this technique is identified to check if the integrity and authentication of the shared information are corrupted at the receiver end. At the receiver side the proposed technique detected this modification and sent a message to the content provider regarding illegal distribution. And also provide mail delivery system to know about status of mail at recipient side.

3.2 FUTURE WORK

In future, developer can extend the framework to implement in various cryptography algorithms and implemented in various applications.

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GAS EFFUSION BY USING IOT

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ABSTRACT

Some of the harmful gases like propane, LPG, Ammonia, methane is highly combustible, and the chance of dangerous explosion is more if confined in a closed space. Gas detection and measurement has become essential in many fields. Combustible gas effusion are capable of reaching large areas, affecting entire neighborhoods or even cities, causing devastating environmental impacts. All the components are controlled by an IOT module that acts as a central processor unit in the setup. Gas effusion detector MQ3 used IOT module at the processor where it process the input from the sensor and mobile application to communicate with the user by sending an alert through SMS and call. The benefit of Gas effusion detector is to prevent the earlier stage of fire accident and other environmental hazards through SMS and call so that we are able to inform to fire department and neighbors, if we are not nearer to the place.

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9.1 CONCLUSION

In this project, the intention is to build a Gas Leakage Detector with MQ2 Sensor using IoT which would detect the gas leakage and send an emergency alert to the authority through IoT.This sensor-enabled solution helps to prevent the high risk of gas explosions and affecting any casualties within and outside the premises.The MQ2 gas sensor helps to detect the concentration of the gases present in the atmosphere to avoid hazardous consequences like fire breakouts.Gas leakage leads to severe accidents resulting in material losses and human injuries. Gas leakage occurs mainly due to poor maintenance of equipments and inadequate awareness of the people. Hence, LPG leakage detection is essential to prevent accidents and to save human lives. This paper presented LPG leakage detection and alert system.

9.2 FUTURE ENHANCEMENTS

The future, more detection ,system like gas detection systems can be Implemented.

Additional feature includes more secure systems like a call will be gone to a telephone number if a gas leakage and fire in a network area like LAN and internet used to world wild

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RFID BASED HOSTEL OUT PASS SYSTEM

A MINOR PROJECT REPORT

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ABSTRACT

The project uses RFID (Radio Frequency IDentification) technology to make a note of every student entering into as well as leaving from the hostel, and also to calculate the time resides inside. Using the RFID technology, the conventional system of taking out pass in hostel can be completely transformed to be more in line with strides in digitalization. This system will help the authorities manage the hostel out pass system in a more methodical, efficient and time saving manner.

In this proposed system, every student is allotted with an RFID tag. The process of attendance can be done by placing the card near the RFID reader. The system has been implemented through a prototype that has proved the effectiveness of the concept in easing the logistics of taking attendance as a result of the automation due to the use of the RFID technology. The design of the system is simple, cost effective and agile making it a good candidate for commercial and academic purposes.

The term RFID is one type of electronic device includes a small antenna and a chip. RFID (radio frequency identification) is designed to serve as the Purpose of barcode scanner. It creates a unique identifier for that object and just as a bar code or magnetic strip it must be scanned to get the information RFID must be scanned to retrieve the information.

In this project, RFID reader, RFID tags, Arduino UNO board are used. This project will help any institute to manage their hostel out pass in efficient data manners.

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10. CONCLUSION AND FUTURE ENHANCEMENTS

10.1 CONCLUSION

The successful design and implementation of an automated hostel outpass system based on RFID technology has been successfully developed. The system developed provides an accurate, simple and cost effective means to register the attendance in educational institutions and effectively shifts the paradigm towards a digital and contactless environment. Moreover, owing to the compactness and the portability of the system, it makes it all the more conducive to be deployed as and when required.

10.2 FUTURE ENHANCEMENTS

RFID technology is budding and expanding as the world progressively moves towards a contactless environment. More so because unlike barcode scanners, RFID is bereft of the line of sight paradigm i.e. the tag doesn't need to be pointed directly over the reader. Instead, the user can get a scan even from feet away from the reader. Further, in addition to being cost effective, RFID alleviates the scope of malpractices and errors. Another point to note here is that this system can further be strengthened by introducing components like a fingerprint scanner if the need arises. Also the scope of this RFID based system can be extended to a range of operations like library management, parking security management, etc.

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MEDICAL INVESTIGATIVE SYSTEM

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8. CONCLUSION AND FUTURE ENHANCEMENTS

The ALPR systems in general have a long way to go and every year there are some ground breaking algorithms of deep learning been created, for better accuracy with low computation power. We have successfully implemented Attention OCR of the TensorFlow which is better in identifying street signs and in Natural Language Processing. We have focused this paper mostly on recognizing the characters on a License Plate to increase the accuracy of the system. We have Obtained 93% accuracy on our own collected dataset, but it can be improved more if we obtain a larger dataset of Indian License .As we have already discussed the perks of ALPR system which makes a difficult task which a human being cannot perform to a simpler task where a machine can perform and that too with lot of accuracy. The future of ALPR systems is yet to grow, and maybe a full pledged hardware device with a best fitting software could be introduced later in the near future. The exponential growth of Deep Learning and Computer Vision is sure happening. And with this research paper we want to be helpful, for those who want to continue this research and further improve the features of ALPR system.

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VEHICLE NUMBER RECOGNITION BY USING EXISTING GENERAL SURVILLANCE CAMERAS

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ABSTRACT

Automatic number plate recognition (ANPR) is an image processing technology which uses number (license) plate to identify the vehicle. The objective is to design an efficient automatic authorized vehicle identification system by using the vehicle number plat

The system is implemented on the entrance for security control of a highly restricted area like military zones or area around top government offices e.g. Parliament, Supreme Court etc. The developed system first detects the vehicle and then captures the vehicle image pytesseract. PIL and Open Cv. Open CV mainly focuses on image processing, video capture and analysis, including features like face detection and object detection.

Vehicle number plate region is extracted using the image segmentation in an image. Optical character recognition technique is used for the character recognition .It is observed from the experiment that the developed system successfully detects and recognize the vechical number plate on real image

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CHAPTER 7

CONCLUSION AND FUTURE ENHANCEMENTS

The ALPR systems in general have a long way to go and every year there are some ground breaking algorithms of deep learning been created, for better accuracy with low computation power. We have successfully implemented Attention OCR of the TensorFlow which is better in identifying street signs and in Natural Language Processing.We have focused this paper mostly on recognizing the characters on a License Plate to increase the accuracy of the system. We have Obtained 93% accuracy on our own collected dataset, but it can be improved more if we obtain a larger dataset of Indian License .As we have already discussed the perks of ALPR system which makes a difficult task which a human being cannot perform to a simpler task where a machine can perform and that too with lot of accuracy. The future of ALPR systems is yet to grow, and maybe a full pledged hardware device with a best fitting software could be introduced later in the near future. The exponential growth of Deep Learning and Computer Vision is sure happening. And with this research paper we want to be helpful, for those who want to continue this research and further improve the features of ALPR system.

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A Minor Project Report

on

INVENTORY CONTROL MANAGEMENT

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c. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

d. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

e. Modern tool usage: Create, select, and apply appropriate techniques resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

f. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

g. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

h. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

i. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

j. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

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CHAPTER 6

CONCLUSION AND FUTURE ENHANCEMENT

6.1 CONCLUSION

To conclude, Inventory Management System is a simple desktop based application basically suitable for small organization. It has every basic items which are used for the small organization. Our team is successful in making the application where we can update, insert and delete the item as per the requirement. This application also provides a simple report on daily basis to know the daily sales and purchase details. This application matches for small organization where there small limited if godowns. Through it has some limitations, our team strongly believes that the implementation of this system will surely benefit the organization.

6.2 FUTURE ENHANCEMENT

- We can implement the direct customer app for buying the products from the shop.
- We can provide the message alert to the user.
- We can do check the goods anytime and anywhere by connecting with internet.

M.Kumarasamy College of Engineering
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A Minor Project Report

On

WATER QUALITY MANAGEMENT SYSTEM

Submitted in partial fulfillment of requirements for the award of the

Degree of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

Under the guidance of

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ABSTRACT

Pollution of water is one of the main threats in recent times as drinking water is getting contaminated and polluted. The polluted water can cause various diseases to humans and animals, which in turn affects the life cycle of the ecosystem. If water pollution is detected in an early stage, suitable measures can be taken and critical situations can be avoided. To make certain the supply of pure water, the quality of the water should be examined in real-time. Smart solutions for monitoring of water pollution are getting more.

Nowadays Internet of Things (IoT) and Remote Sensing (RS) techniques are used in different area of research for monitoring, collecting and analysis data from remote locations. Due to the vast increase in global industrial output, rural to urban drift and the over-utilization of land and sea resources, the quality of water available to people has deteriorated greatly. The high use of fertilizers in farms and also other chemicals in sectors such as mining and construction have contributed immensely to the overall reduction of water quality globally. Water is an essential need for human survival and therefore there must be mechanisms put in place to vigorously test the quality of water that made available for drinking in town and city articulated supplies and as well as the rivers, creeks and shoreline that surround our towns and cities.

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. Conclusion

Monitoring of Turbidity, PH & Temperature of Water makes use of water detection nsor with unique advantage and existing GSM network. The system can monitor water ıality automatically, and it is low in cost and does not require people on duty.Good ıality water means that it is not only safe for public consumption but also good for our alth, as well as that of animals and plants, as it provides irreplaceable nutrients and nefits needed to survive.

ı Future Enhancement

- The future scope of this project is monitoring environmental conditions. drinking water quality, treatment and disinfection of waste water etc. This system could be implemented in various industrial processes.

M.KUMARASAMY

A Minor Project Report

On

TRAFFIC SIGNAL SURVEILLANCE USING ULTRA SONIC SENSOR

Submitted in partial fulfillment of requirements for the award of the

Degree of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

Under the guidance of

Mrs. N SRIJA AP/IT

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ABSTRACT

)T based automated traffic signal monitoring as well as controller system that ɔmates complete traffic signalling system automation and also allows for nual override over internet. The system uses arduino based circuit system to nitor traffic signal densities and transmits this data online over internet to the trollers. The system shows current densities to help monitor traffic conditions roads. This puts forth a traffic signal monitoring and controller system that can operated remotely over the internet from anywhere with manual override lity.

ɔur present life situation congestion in traffic is a big problem in faster lifestyle. e of the main reasons for the congestion is large delay or the time fixed for the l light in the signal. This idea tries to reduce the occurrence of congestion ɪsed by traffic lights, to an extent. The proposed idea is based on Arduino. ıich are fixed at the possible direction on the traffic signal roads. Based on the mber of vehicles count, the arduino decides and controls the traffic signal time ration as a result. The vehicle count produced from arduino data will be corded. For correct classification, the record details can be stored to the ntroller by informing arduino to the computer system then it will send correct lay of signal into the LED lights. In future this model can be used to giving formation to travellers about different areas.

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8. Conclusion

- Nowadays, controlling the traffic becomes major issue because of rapid increase in automobiles and also because of large time delays between traffic lights.
- So, in order to rectify this problem, we will go for density based traffic lights system.
- Advanced traffic signal controllers and control system contribute to the improvement of the urban traffic problem.
- The intelligent of traffic signal controller that is introduced in this project with powerful functions and hardware interface.

8.1 Future Enhancement

- We will update this system with when a vehicle try to move even during red signal it will turn on an alarm to warn the driver of the vehicle and will send the alert to the traffic warden with the picture.

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A Minor Project Report

on

FOREST FIRE ALARM DETECTION

Submitted in partial fulfilment of requirements for the award of the

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BACHELOR OF TECHNOLOGY

in

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ABSTRACT

The forest is one of the most important wealth of every country. The forest fires destroys the wildlife habitat, damages the environment, affects the climate, spoils the biological properties of the soil, etc. So the forest fire detection is a major issue in the present decade. At the same time the forest fire have to be detected as fast as possible.The method is implemented over the two real time data sets. The proposed method is most suitable for segmenting fire events over unconstrained videos in real time.

Chapter 6

Conclusion

Trees and plants in the forest are an integral part of the ecosystem. It sustains life on the planet, provides clean air and shelter. Also, forests help conserve biodiversity. Thus, we conclude from this forest fire alarm is used for safety and emergency purpose. This is not only use in forest but also in house and any type of buildings.

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NAAC Accredited Autonomous Institution
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ANNEXURE-I

A Minor Project Report

On

LIGHT DIMMER USING BLUETOOOTH

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in

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ANNEXURE-II

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ABSTRACT

The light level in a room has a huge effect on one's mood and productivity Lighting can contribute to your alertness and awake ness in the mornings, and it can either entice you to feel tired or keep you up all night. With all of these discoveries on the effects of lighting, it is becoming more and more important to be able to control lighting. In this paper, Bluetooth controlled AC dim light is constructed using TRIAC. The android application is developed using JDK in Android Eclipse which will control the on/off function of the light bulb. Bluetooth wireless communication has been rising in popularity nowadays due to its low cost and wide range of applications. Moreover, most modern phones have Bluetooth, making it excellent controllers for Bluetooth-supported devices. Serial data sent from the Android application is received by the Bluetooth receiver interfaced to the Arduino. Zero cross detection method is used for TRIAC gate trigger and Arduino uses serial data to generate appropriate pulses at a specific angle for TRIAC. Isolation between Arduino and ac source is considered and overall system is implemented using simulation and practical approaches.

ANNEXURE-III

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CHAPTER-7

Conclusion

7.1 Conclusion

A dimmer is a device connected to a light fixture and used to lower the brightness of the light. By changing the voltage waveform applied to the lamp, it is possible to lower the intensity of the light output. One of the biggest advantages of dimmers switches is that they can help you control the electricity flow across various lighting sources of your home.

7.2 Future Scope

- Wireless communication using Bluetooth.
- Home appliances.
- Widely used in household activities.
- Adaptive to ac supply.
- Contains zero crossing technology.
- Requires Arduino NANO.

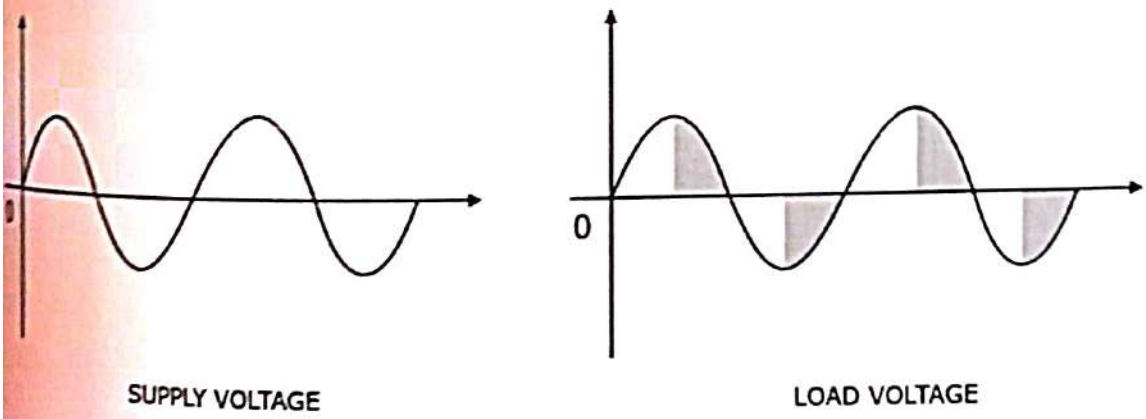

Fig.7.1 Supply and Output Voltage

STUDY OF ORGANS USING AR

A MINOR PROJECT REPORT

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ABSTRACT

A medical student who wants to study different concepts like Digestive System, Heart and other systems that are hard to Imagine and Understand has to study and understand everything from a picture or diagram and books. Currently, a student who wants to study the Anatomy of different parts (organs) of the Human Body has to look and understand everything from a picture or diagram.AR in Anatomy is an app that lets students explore the physical body to know how it works. By using this app Users can see the Anatomy of different Human body parts in action, rotate them, zoom in and out. The app also gives labelling of small parts too. AR helps the scholar better remember the knowledge they need just learned. These diagrams are very complex and they are printed in 2D on books because of which it is very difficult to visualize. Students will be able to Visualize these diagrams very easily and effectively using our APP.

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Chapter – 5

Conclusion and Future Enhancement

Conclusion

The project aims to enhance learning and teaching process in medical ducation system. Different aspects of this model help exponentially in nderstanding the diagrams and learning in a better way. The 3D model with all ngle view which can be zoomed in and out for exploring minute details, along with ıbels and other detailed information integrated which provides not only detailed nd better virtual visualization but also creates interest in the learning due to its legance.

A Minor Project

Report On

MULTICOAL CLASSIFICATION USING DEEP LEARNING

A MINOR PROJECT REPORT

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ABSTRACT

Coal is primary energy source that plays an important role in the development of the country's economy. However, there is a lot of coal gangue throughout the coal that is being mined. Coal gangue should be separated before use in industrial product. Manual selection and mechanical separation are the most common methods of traditional sorting. Manual classification is not only expensive, but also severely limits the effectiveness of mineral processing. During the raw ore crushing process, mechanical separation will cause significant pollution and loss of concentrated coal. The purpose of this project is to investigate a coal power classifier model that uses feature harvesting and deep learning. Given the large dimensionality, powerful correlation, and also bias of spectral information, this paper proposes combination of extraction features with Convolutional Neural Networks to address the issue of coal classification and improve accuracy of classification further. A classification algorithm along with better deep learning algorithm is used to improve and optimize the model's structure and training parameters.

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CHAPTER-6

CONCLUSION

cience and technology advancements have resulted in the constant maturation of the te sensing technology, which really is extremely useful for social development. To the problem of coal classification, features extraction and neural network technology mbined in this project. The Convolutional neural networks algorithm is proposed, and used to create a quick coal classification model. The classification accuracy of the algorithm is higher than that of conventional machine learning algorithms, according perimental results. In contrast to the traditional method of coal categorization, the osed method saves time, is faster, and is more accurate, and has a wide range of ical applications.

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A Minor Project Report

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CV ANALYSIS USING MACHINE LEARNING

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in

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ABSTRACT

This project is used to recruit the candidates. It is a web-based application that mainly focuses on identifying the personality of an individual candidate who applies for a particular designation. In this system, candidate can register through the registration option available in the particular institution website. The candidate can attend the online test process when they got shortlisted from the registration process. HR manage the shortlisted candidate history and their assessment process.HR can add the assessment questions for shortlisted candidates. HR will provide reply about the candidate's result and performance. After the completion of the test process, HR sends the assessment result of an individual candidate's email. This can be achieved with web development technologies like HTML, CSS, PhP, Java script and using the database (MySQL)

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CHAPTER-9

CONCLUSION AND FUTURE ENHANCEMENT

CONCLUSION

We have presented in this paper, the prediction of human personality by using dard questionnaires that is provided by the HR Department according to the job tion criteria. Candidates fill an online Curriculum Vitae (CV) which can be later iewed by the Admin. Candidates are provided with separate set keys for attempting ptitude and personality based tests. CV analysis is performed using the CV filled he candidate in the website. A machine learning approach has been used in analysis lata through content and collaborative filtering. Further the test scoreshelp in ding the qualities in the candidates. Thus, the CV is shortlisted for the recruitment ess and a fair and appropriate decision is made by HR department. Also data alization model determines the overall performance of the candidates based on ous factors. This analysis helps the admin department to calculate the proficiency andidates accurately.

FUTURESCOPE

We are presenting a highly efficient, costs effective recruitment system. The em collects and analyzes the data from the websites. We are addressing the problem rding recruitment of right candidate for right post in economical way. In this, we implemented a system which helps organizations to hire eligible candidates. ause of this system, HR can directly search for the required resumes in a fraction. uture scope, the system can be extended by including aptitude tests, language iciency tests etc.

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A Minor Project Report

on

MKCE ITKM STOCK MANAGEMENT

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ABSTRACT

Stock management system for college management is an automated software system that helps colleges to manage and monitor their inventory levels efficiently. This system aims to streamline the entire stock management process by providing real-time information about inventory levels, stock movements, and ordering processes. The system is designed to be user-friendly and easy to navigate, with a simple interface that can be easily understood by anyone with basic computer knowledge. It provides a comprehensive range of features, including inventory tracking, stock ordering, stock usage analysis, and stock level alerts. The system is highly customizable, allowing users to configure it according to their specific requirements. It can be integrated with other college management software systems to provide a seamless and efficient inventory management experience.

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CHAPTER 6

Conclusion

In conclusion, effective stock management is crucial for the success and profitability of any business that deals with inventory. It involves the careful monitoring, control, and optimization of stock levels to ensure that the right products are available in the right quantities at the right time. A well-implemented stock management system offers several benefits. First and foremost, it helps to minimize stockouts and overstocking, which can lead to lost sales, customer dissatisfaction, and increased holding costs. By maintaining optimal inventory levels, businesses can improve cash flow and reduce storage expenses.

Furthermore, efficient stock management enables accurate demand forecasting and planning. By analyzing historical sales data, market trends, and customer behavior, businesses can make informed decisions about purchasing, production, and order fulfillment. This helps to streamline operations, reduce lead times, and enhance customer service. In summary, stock management is a critical aspect of business operations that impacts various areas, including sales, customer satisfaction, cash flow, and overall profitability. By implementing efficient stock management practices, businesses can optimize their inventory levels, improve operational efficiency, enhance customer service, and achieve a competitive edge in the marketplace.

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A MINOR PROJECT REPORT ON

CHATBOT SONG RECOMMENDOR SYSTEM

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ABSTRACT

Face detection and emotion selection is the one of the current topic in the security field which provides solution to various challenges. Beside traditional challenges in captured facial images under uncontrolled settings such as varying poses, different lighting and expressions for face recognition and different sound Frequencies for emotion recognition. For the any face and emotion detection system database is the most important part for the comparison of the face features and sound Mel frequency components. Movie is one of the most fruitful media as it can instill deep feelings and marsh listeners with subliminal messages. It skill fully plays with our emotions which in turn influence our mood. Books, movies and television show are a few other means but, in disparity to these, movie convey its message in sheer moments. It can aid us when we are feeling low and entrust us. When we vision to sad movie, we tend to feel a downswing in mood. When we vision to happy movies, we feel happier. The sentiment analysis has been explored by several Internet services to endorse contents in line with human emotions, which are expressed through casual texts posted on social network. Movie recommendation will mainly work on enhancing user's mood by providing movie by detecting the facial expression of the end user and according to its expression it recommend the preferable movie. This paper extract the human expression and suggest the movie according to it and if the user accept that movie then the movie starts to play.

6.1 CONCLUSION

Since movie has the power to emote user's feelings a generic model is implemented to recommend movie based on the user emotions. Human emotions play an important in expressing the thought of an individual. The main goal of the system is to detect changes in the emotional state of the user and play movie according to the user's preferences by exploring various movie tracks. The system uses CNN algorithm for emotion classification which can be determined by change in shape, size and movement of eyebrows, eyes and mouth. They fall into one of the six basic types of emotions which are sadness, happiness, anger, fear, disgust and surprise based on which a playlist is generated. The main reason for using CNN algorithm over SVM is its ability to recognize the most important features in an image without any help from humans. Also, SVM's prediction accuracy is found to be less when compared to CNN's accuracy. The proposed system has delivered results with significant accuracy. Since human emotions are not consistent and they are actually a result of internal and external circumstances happening around an individual it is difficult to get 100% accuracy. But with better algorithm and intense research a perfect emotion-based movie recommendation system can be developed. The Proposed system is tested against a web camera. The total cost involved in implementing this project is almost negligible.

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ANNEXURE-I

A MINOR PROJECT REPORT

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ABSTRACT

cal diagnosis using machine learning proposes an automated disease ction system to save time required for the initial process of disease ction that relies on user input. The user gives input to the system and n provides the user with a set of probable diseases. Disease prediction is on classification supervised learning method. Naives Bayes, SVM and algorithm considers each property as an autonomous property that ibutes to the final classification.It is used because of its accuracy and vering quality. The traditional diagnosis approach entails a patient ng a doctor, undergoing many medical tests, and then reaching a nsus. This process is very time consuming and simple to diagnosis at ime. Medical Diagnosis System is a software solution which allows a cular institute to arrange, conduct and manage communication and nge of health and medical information between patients and doctors via line environment .

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ccurate and on-time analysis of any health-related problem is important for the ion and treatment of the illness. Developing a medical diagnosis system based on e learning algorithms for prediction of any disease can help in a more accurate sis. By giving appropriate value for all these parameters we can predict disease test The proposed system is GUI-based, user-friendly, scalable, reliable and an dable system. The proposed working model can also help in initial diagnostics in Doctors can utilize this tool for initial diagnosis of patients.

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ONLINE CODE EDITOR

A MINOR PROJECT REPORT

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ABSTRACT

Online Compiler and code editor's main objective is to implement Code without talling compiler in the system, directly the code can be compiled and run. An online mpiler has the same basic functionality as a conventional compiler, however with one nificant difference: a project or application's source code is stored and executed online ough web browser. Hence, we aim to develop a website where users can write C code paste into the C code editor and compiler then press the run button. The system will d information to server where compiler is installed, and it will test the code at server and send result to client within a few seconds. So, this application will save time in alling the entire C compiler with DOS which is a time taking process. Therefore, ple can directly use this online compiler which is fast and straight forward method.

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Online Code Editor covers all the IDEs and code editors out there as of writing. We ve left out two types of offerings in this list: those that are focused purely interviews and don't have full-fledged environments (except our beloved classic JSP ddle, of course), and those that didn't seem to offer something substantial and had little ore than a sleek home page. If you need something lightweight for the web velopment, you can explore these code editors. This application is used for online ding. After selecting the programming language, you can start to write code. Below e the highlighted features. Four programming languages are supported, including C, ++, Java, and Python. Syntax highlighting for different languages. Compilation and xecution are supported in the proper result or error message will be displayed, in the rowser window or code editor.

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WIRELESS NOTICE BOARD

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ABSTRACT

Notice board is the most common and primary apparatus in any institution, organization, or public utility places like a bus station, railways stations, and parks. But sticking various notices day today is a difficult process. This project deals with a **Wireless Notice Board**. The main objective of the project is to develop a wireless notice board that displays messages sent from the webserver. When a user sends a message, it is received by a wifi Module through local web server. A display connected to a server system should continuously listen for the incoming messages from the user, process it, and display it on the LCD screen. The message displayed should be updated every time the user sends new information. Only authenticated people should update the data to be displayed on the LCD.

The proposed project can decrease work load and human dependency. It is proposed to design display toolkit which can be used from an authorized app. The display boards are one of the most important media for transferring information to the maximum number of end users. With the advancement in technology the display board systems are migrating from normal hand-written display to digital display.

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7. CONCLUSION

In this modern era of technology is helping us to reduce human work. The proposed project can decrease work load and human dependency. It is proposed to design display toolkit which can be used from an authorized app. The display boards are one of the most important media for transferring information to the maximum number of end us-ers. With the advancement in technology the display board systems are migrating from normal hand-written display to digital display.

A user can send a message from any-where in the world. Being user friendly, long range and speedy mean of conveying information are major characteristics of this system.

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DISTANCE TRACKER USING AR

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ABSTRACT

Augmented Reality (AR) is a technology that provides intuitive interaction experience to the users by combining the real world seamlessly with computer-generated texts, images, animations, etc. An augmented world with functions designed for the intended application as well as the end user interaction experience is rendered to the user, resulting in efficient perception and creation for them. AR technology has evolved from one that only appears in science fiction movies to one that has been applied broadly in industries. Augmented Reality (AR) applications have demonstrated to be effective in the design review phase, when new products have been designed and require an evaluation. In fact, AR offers the possibility of evaluating 3D virtual models of these products, which can be easily modified, in their real context of use, without the need to produce real prototypes.

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However, to create an effective AR distance tracker, it is important to consider factors such as accuracy, usability, and accessibility. The technology should be able to accurately measure distances in real-time, while also being easy to use and accessible to a wide range of users. So we created this for the convenience of peoples. And the user can easily view the distance of the image by installing the app in the mobile itself.

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QUICK RESPONSE CODE GENERATOR

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ABSTRACT

A QR code generator is a computer program that creates Quick Response (QR) codes. These codes are a type of two-dimensional barcode that can be scanned using a smart phone camera or a QR code scanner. The generated QR code contains information such as a website URL, contact information, or a message on social media, folder.

The QR code generator project aims to develop a software application that can generate QR codes quickly and easily. The project will involve designing a user interface that allows users to input the information they want to encode into a QR code. The software will then generate the QR code, which the user can download in secure as their login and use as required.

The project will involve using programming languages such as Python, Javascript, along with libraries and frameworks that can generate QR codes. The user interface will be designed using a graphical user interface (GUI) toolkit, such as Tkinter or JavaFX.

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9. CONCLUSION AND FUTURE ENHANCEMENTS

9.1 CONCLUSION

The QR Code Generator project was a successful endeavor that resulted in the development of a web-based tool for generating customized QR codes. The project provided valuable insights into QR code technology, customization options, and tracking features. The user-friendly interface and customization options allowed users to create QR codes that aligned with their specific requirements, while the tracking features provided insights into QR code performance. Overall, the QR Code Generator project was a useful and effective tool for generating QR codes for various purposes.

9.2 FUTURE ENHANCEMENTS

1. **Customization options:**

   To make the QR codes more visually appealing and aligned with the brand identity, future enhancements could include adding customization options such as colors, logos, frames, or patterns. This could enhance the brand recognition and increase the user engagement with the QR codes.

2. **Dynamic QR codes:**

   Dynamic QR codes are QR codes that can be changed even after they have been printed or distributed. Future enhancements could include adding dynamic QR code generation, which would enable businesses to modify the linked content, track the usage, and update the QR codes without the need for reprinting. This would provide more flexibility and efficiency in managing QR code campaigns.

3. **Integration with analytics tools:**

   To measure the effectiveness of the QR code campaigns and optimize them, future enhancements could include integrating the QR code generator with analytics tools such as Google Analytics or Adobe Analytics. This would provide insights into user behavior, demographics, conversion rates, and other metrics that could inform the QR

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EMAIL ENCRYPTION AND DECRYPTION

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ABSTRACT

Data sharing and Protection are increasingly becoming an essential part of the daily life for end users to access different systems, services, and applications. Data disclosure frequently occurs in real-world E-mail services. Authentication and copyright protection of multimedia contents has always beena concern in secure data transfer media. The problem has become more critical with the increasing use of the Internet and digital technologies. However, making the protection of copyright is more complex and difficult. Digital watermarkingcame up as a solution for copyright protection problem. In proposed approach using Geo-fense technology, both Watermarking and Encryption approach utilized for efficient content sharing. Watermarking is used to hiding the information such as hide secret information in digital media like images. Encryption techniques used to provide security to data. In encryption, theinformation is encoding to prevent unauthorized access and the unauthorized persons cannot read it. Finally, authorized user can extract decryption key with the help of embedded data verification process. Unauthorized or illegal access can identified, when user information does not match with embedded information. This proposed application helps to track the illegal access and avoidthe content re-distribution in Email environment. And also provide group data sharing based on rules based approach using Machine learning algorithm and also provide acknowledgement system for mail delivery system.

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7.2 CONCLUSION

Propose a combined cryptography and watermarking technique for secure transmission of information through E- Mail server. Discrete Wavelet transform is used for watermarking and AES cryptography is used for encryption purpose. The proposed technique is not only designed to provide copyright protection, however, it is proposed to provide integrity and authentication services for the media data based on Geofense framework. It includes the Machine learning algorithm to choose group data sharing based on location of group. Therefore, its target is not to be robust against modification attacks, but its target is to detect any illegal activities on the watermarked information. The ability of this technique is identified to check if the integrity and authentication of the shared information are corrupted at the receiver end. At the receiver side the proposed technique detected this modification and sent a message to the content provider regarding illegal distribution. And also provide mail delivery system to know about status of mail at recipient side.

7.3 FUTURE WORK

In future, developer can extend the framework to implement in various cryptography algorithms and implemented in various applications.

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A Minor Project Report On

SENTIMENT ANALYSIS ON MOVIE SUGGESTION USING CNN ALGORITHM

Submitted in partial fulfillment of requirements for the award of the Degree of

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ABSTRACT

Face detection and emotion selection is one of the current topic in the security field which provides solution to various challenges. Beside traditional challenges in captured facial images under uncontrolled settings such as varying poses, different lighting and expressions for face recognition and different sound Frequencies for emotion recognition. For any face and emotion detection system database is the most important part for the comparison of the face features and sound Mel frequency components. Movie is one of the most fruitful media as it can instill deep feelings and marsh listeners with subliminal messages. It skill fully plays with our emotions which in turn influence our mood. Books, movies and television show are a few other means but, in disparity to these, movie convey its message in sheer moments. It can aid us when we are feeling low and entrust us. When we vision to sad movie, we tend to feel a downswing in mood. When we vision to happy movies, we feel happier. The sentiment analysis has been explored by several Internet services to endorse contents in line with human emotions, which are expressed through casual texts posted on social network. Movie recommendation will mainly work on enhancing user's mood by providing movie by detecting the facial expression of the end user and according to its expression it recommend the preferable movie. This paper extract the human expression and suggest the movie according to it and if the user accept that movie then the movie starts to play.

5.3 CONCLUSION

Since movie has the power to emote user's feelings a generic model is implemented to recommend movie based on the user emotions. Human emotions play an important in expressing the thought of an individual. The main goal of the system is to detect changes in the emotional state of the user and play movie according to the user's preferences by exploring various movie tracks. The system uses CNN algorithm for emotion classification which can be determined by change in shape, size and movement of eyebrows, eyes and mouth. They fall into one of the six basic types of emotions which are sadness, happiness, anger, fear, disgust and surprise based on which a playlist is generated. The main reason for using CNN algorithm over SVM is its ability to recognize the most important features in an image without any help from humans. Also, SVM's prediction accuracy is found to be less when compared to CNN's accuracy. The proposed system has delivered results with significant accuracy. Since human emotions are not consistent and they are actually a result of internal and external circumstances happening around an individual it is difficult to get 100% accuracy. But with better algorithm and intense research a perfect emotion-based movie recommendation system can be developed. The Proposed system is tested against a web camera. The total cost involved in implementing this project is almost negligible.

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A Minor Project Report

On

KIDS LEARNING MANAGEMENT SYSTEM

Submitted in partial fulfilment of requirement for the award of the

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in

INFORMATION TECHNOLOGY

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ABSTRACT

Our project is about **KIDS LEARNING MANAGEMENT SYSTEM.** Everybody deserves a proper education. However, there are parents out there struggling to teach their kids to read and write due to their inability to teach them properly. Therefore, this project is going to explore the possibility of using Unity Game and virtual reality in a gaming medium to teach children to learn alphabet. With the existence of variety of students around us, problems tend to occurs when the teaching and learning process are going on. Sometimes they just refuse to learn altogether. These problems support the designation of this project which is to overcome the cause of illiterate among adults by starting early in terms of learning alphabet using this development of Unity. Exploring further into the project, analysis, planning, design, testing and implementation are going to be carried out to support the progress of this project. The purpose of this project is to make children learn through this gaming application.

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As technology develops each and every day, there will be, which may create a huge development in the market too. There is our project which has been developed on the basis of Unity Game, the purpose of this project is to make children learn through using Unity Game instead of the traditional method of learning.

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SIGN LANGUAGE RECOGNITION

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ABSTRACT

Sign language recognition is a project which utilizes advancements in technology to assist especially aided individuals. We planned to build a sign detector for this purpose. Through this project, we are trying to recognize and display messages according to hand movements. The growth in the existing technologies, as well as extensive research, is used to assist the deaf and dumb. This can be extremely useful for deaf and a dumb person in interacting with others, as understanding sign language is not something that many possess. The modules such as OpenCV and Keras of python are being used to accomplish this task. In this sign language recognition project, we create a sign detector, which detects numbers from 1 to 10 that can very easily be extended to cover a vast multitude of other signs and hand gestures including the alphabets. There have been several advancements in technology and a lot of research has been done to help the people who are deaf and dumb. This can be very helpful for the deaf and dumb people in communicating with others.

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- By the use of modules such as OpenCV and Keras of Python, a sign language recognition model can be developed which provides aid to disable community.
- Here, the designed model is trained by providing a set of inputs, such as images which are then further used to produce a set of messages after capturing a certain hand gesture.
- The speciality of this model is that, it can be trained to design various messages with different hand gestures of our choice which helps in bridging the gap between the specially-aided individuals to the common public.

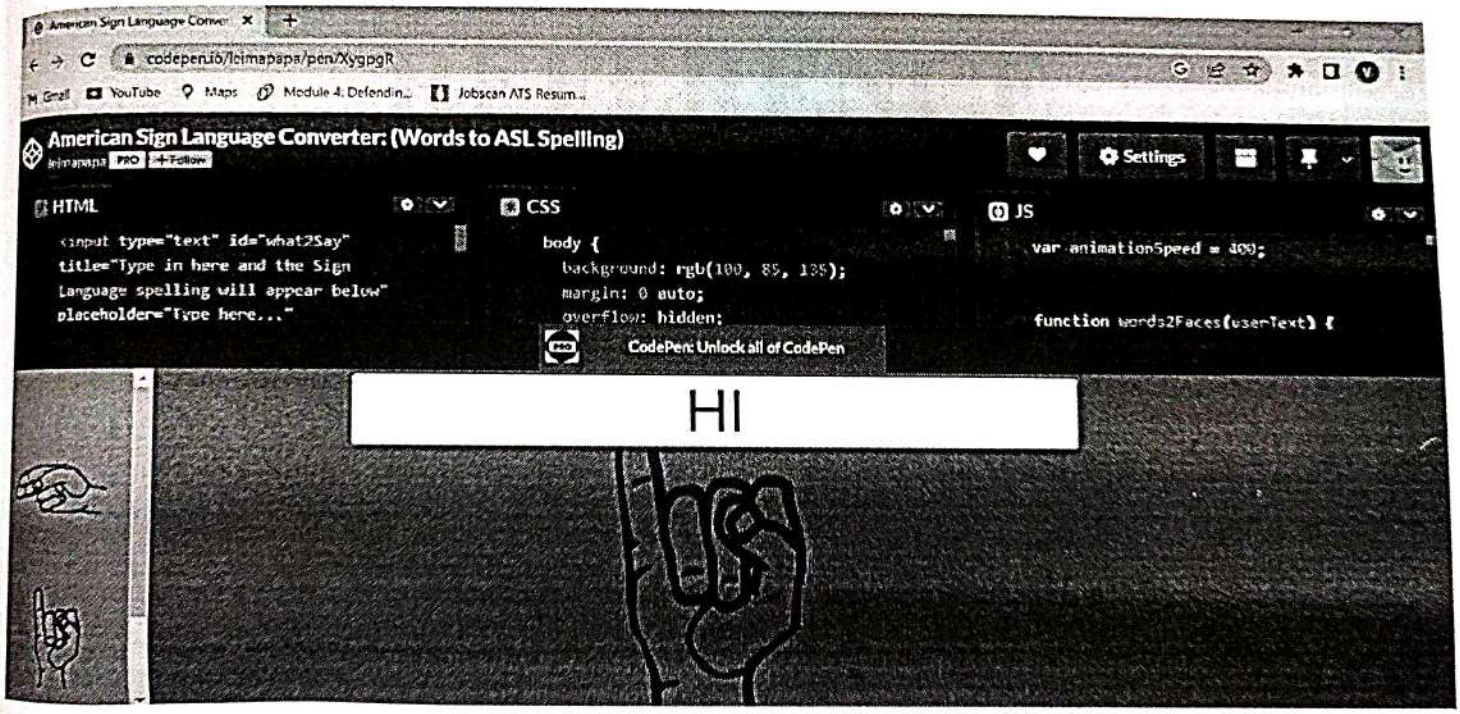

Fig 7.1 Output Screenshot

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RHYTHM APPLICATION USING AUGUMENTED REALITY

A MINOR PROJECT REPORT

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ABSTRACT

The project **Rhythm application using augumented reality** proposes an audio player that utilizes augmented reality technology to enhance the user's experience. The player allows users to control and manipulate audio playback by interacting with virtual objects in their environment through a mobile device or headset. The system combines audio playback with real-time image recognition and spatial tracking to create an immersive and interactive audio experience. Users can explore and manipulate virtual objects in their physical environment to control audio playback, adjust volume, and access other features. This audio player provides a new way to experience audio content, offering a more engaging and intuitive interface that blurs the lines between the virtual and physical world.This project proposes a music application that uses augmented reality (AR) technology to create an immersive and interactive experience for users. The application allows users to explore and interact with virtual musical instruments and create their own music compositions by using a mobile device or headset.

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CHAPTER 7

CONCLUSION

As technology develops each and every day, there will be, which may create a huge development in the market too. There is our project which has been developed on the basis of Augmented Reality.

The Augmented Reality Music Application offers a unique and immersive way to experience music by combining augmented reality with interactive music elements. Its features, such as virtual instruments, music visualization, performance modes

The purpose of this project is to make entertain the peoples by the use of songs for both educated and uneducated peoples with the no need of internet connections.

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A Minor Project Report

On

HEART DISEASE PREDICTION USING MACHINE LEARNING

Submitted in partial fulfilment of requirement for the award of the

Degree of

BACHELOR OF TECHNOLOGY

in

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ABSTRACT

One of the illnesses that can lead to death is heart disease. To correctly diagnose the illness and administer treatment, a trustworthy and accurate system is required. The machine learning algorithm and techniques assist in the identification of diseases related to the heart. Heart disease becomes difficult for doctors and hospitals to predict and diagnose. This technique has the potential to be very effective in reducing the high death rate. Since predicting cardiac disease is a difficult undertaking, automation of the prediction process is necessary to reduce risk. Using machine learning algorithms, a comprehensive examination of genomic data can be carried out with ease. In various fields around the world, machine learning is used. Machine learning can be crucial in determining whether or not there will be locomotor abnormalities, heart ailments, and other conditions. If foreseen far in advance, such information can offer crucial intuitions to physicians, who can then modify their diagnosis and approach to each patient. We are working on developing machine learning algorithms to predict potential heart diseases in people. We compare classifiers such decision trees, Naive Bayes, logistic regression, SVM, and random forests in this research. Additionally, we provide an ensemble classifier that uses both strong and weak classifiers to accomplish hybrid classification.

CHAPTER-9

CONCLUSION

Heart disease is one of the major concerns for society today.It is difficult to manually determine the odds of getting heart disease based on risk factors, we proposed three methods in which comparative analysis was done and promising results were achieved. The conclusion which we found is that machine learning algorithms performed better in this analysis. Models based on Random Classifiers were computationally very fast and have also performed well.SVM performed extremely well for most of the cases. Systems based on machine learning algorithms and techniques have been very accurate in predicting the heart related diseases but still there is a lot scope of research to be done on how to handle high dimensional data and overfitting.

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A Minor Project Report

On

TEXTIFY RECOGNITION

Submitted in partial fulfilment of requirements for the award of the

Degree of

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in

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ABSTRACT

Text recognition in images is a research area which attempts to develop a computer system with the ability to automatically read the text from images. These days there is a huge demand in storing the information available in paper documents format in to a computer storage disk and then later reusing this information by searching process. One simple way to store information from these paper documents in to computer system is to first scan the documents and then store them as images.The text recognition process involves several steps, including pre-processing, segmentation, feature extraction, classification, and post-processing. The preprocessing is performed as a binarized image to convert a grayscale image, and noise is reduced on the input image of the basic operation performed by removing the noise of the image signal. The segmentation phase is used to segment the image given online and segment each character of the segmentation line. Feature extraction is to compute the characteristics of the image document. This document describes techniques for converting the textual content of a paper document into a machine-readable format.

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CHAPTER-6

6. CONCLUSION

Textify recognition helps to classify numeric samples which are mostly saved as digital images. It also can recognize other symbols written by hand which is natural handwriting or text. Using Open Character Recognition and Convolution Neural Network it results in 99% accuracy. It works better than any algorithm with good efficiency in an effective manner. He accuracy of text recognition is 84.53% . The accuracy varies from 67.86 percent for blurred images to 93.47 percent for clear images. For [2], the text recognition accuracy for all 281 text regions correctly detected is found to be 93%. In all the text regions 97.2% of visible text is detectedhe accuracy of text recognition is 84.53% . The accuracy varies from 67.86 percent for blurred images to 93.47 percent for clear images. The text recognition accuracy for all 281 text regions correctly detected is found to be 93%. In all the text regions 97.2% of visible text is detected

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STUDENT'S PERFORMANCE PREDICTION

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ABSTRACT

The student in higher education is in the risk of higher rates of dropout which Affects the growth of institution and the rate of world economy. Educational Data Mining [EDM] helps to predict the student performance using which we can avoid the dropouts and improve the student's performance. To address this challenge, we are proposing an idea using classification algorithm by which we can predict the student's performance with higher accuracy. The main objective of our model is to help the students and the teachers to improve the student's performance. Predicting student academic performance has been an important research topic in Educational Data Mining (EDM) which uses machine learning and data mining techniques for predicting. However, measuring academic performance of students is challenging since students academic.

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CHAPTER 7

CONCLUSION

The "Student Performance Prediction" process made computerized to reduce drop-out rate of students. The main focus of this project is to increase student's performance. Our project is only a humble venture to satisfy the needs in a educational institution. Several user-friendly coding has also adopted. This package shall prove to be a powerful package in satisfying main requirements of the student's performance. In this work, it is concluded that student performance prediction is the major challenge of prediction analysis due to complex dataset.

To improve accuracy of student performance prediction using random forest classifier is applied in his research work. The proposed model is implemented in python and results are analyzed in terms of accuracy, execution time. It is analyzed that proposed model has high accuracy and low execution time as compared to existing model.

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SEMESTER RESULT PUBLICATION AND REVALUATION SYSTEM

A MINOR PROJECT REPORT

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ABSTRACT

This system mainly focuses on the educational institutions that frequently face difficulties with semester result publication, including manual and time-consuming procedures, a lack of transparency, and limited adoption of cutting-edge technologies. we set out to address these issues by utilizing technology to improve transparency, streamline the current procedures, and advance efficiency and accuracy. The goals include creating an online portal for students to access their results, streamlining the application process for revaluation, and establishing a productive system for requesting photocopies of answer scripts.

This system aims to develop a user-friendly and scalable solution that enhances the overall experience for students and administrative staff by automating manual processes, reducing paperwork, and encouraging technology adoption. The output of the project is anticipated to help improve the efficiency, openness, and accessibility of the semester result publication and revaluation system.

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CONCLUSION

In conclusion, the proposed method for semester result posting and revaluation provides a sound and original solution to overcome the shortcomings of the existing system. Through its online portal, digitized workflows, transparency, efficiency, and usage of technology, the proposed system intends to streamline the result publication and revaluation processes, making them more convenient, accessible, and accurate for students and administrative personnel.

The proposed solution has the potential to considerably improve the overall experience for students by giving them prompt access to their results, streamlining the procedures for revaluation and photocopy requests, and providing them with real-time updates on the status of their requests. Administrative costs will be reduced by automating manual procedures, cutting back on paperwork, and reducing the likelihood of mistakes.

By offering students a clear understanding of the status of their requests and expediting the processing of requests, the suggested approach also promotes efficiency and transparency. A benefit to the industry as a whole will result from the system's adoption of modern technologies, which will also allow other educational institutions to put comparable concepts into effect.

The suggested strategy for posting and reevaluating semester results is generally a promising one that seeks to solve the weaknesses of the present system and improve the overall experience for both students and administrative staff. By employing technology and introducing novel features, the suggested system has the potential to alter how semester results are released and revaluations are handled, resulting in a more efficient, transparent, and user-friendly system.

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SALES FORECASTING SYSTEM

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ABSTRACT

Sales forecasting is a crucial process for businesses to predict future sales and make informed decisions regarding production, inventory, and overall business strategy. This abstract provides an overview of sales forecasting, highlighting its importance, methods, and challenges. Sales forecasting involves estimating future sales volumes, values, or units based on historical data, market trends, and other relevant factors. It helps businesses optimize their resources, identify potential opportunities and risks, and set realistic sales targets. Accurate sales forecasting enables companies to align their operations, marketing efforts, and financial planning effectively. Several methods are commonly used for sales forecasting. These include qualitative techniques such as expert opinions, market research, and customer surveys, which rely on subjective judgments and qualitative data. Quantitative techniques, on the other hand, involve statistical analysis of historical sales data, employing methods like time series analysis, regression analysis, and predictive modeling. Many businesses combine both qualitative and quantitative approaches to achieve more accurate forecasts.

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CHAPTER 7

CONCLUSION

In conclusion, a sales forecasting system is a valuable tool for businesses as it helps to predict future sales, enables effective inventory management, and allows for better decision making related to sales and marketing strategies. With the right implementation of a sales forecasting system, businesses can significantly improve their sales performance. However, it's important to note that no sales forecasting system can accurately predict sales with 100% accuracy. Sales forecasting is based on assumptions, historical data, and market trends. Therefore, it's essential to regularly refine and adjust the system based on actual sales data and market changes to improve its accuracy. In developing a sales forecasting system, businesses must define their objectives, identify data sources, choose appropriate forecasting techniques, and invest in the necessary technology and expertise to implement and maintain the system effectively.

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A Minor Project Report

On

STUDENT INFORMATION SYSTEM

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in

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ABSTRACT

The main purpose of this Student Information Management System (SIMS),is a management information system for education establishments to manage student data. In the current system all the activities are done manually. It is very time consuming and costly. Our Student Management system deals with the various activities related to the students. For every colleges of their important task for people administration department is to manage student data information of the details in a the procedure oriented system manner with oflatest inform updates for every year for which need to be available for easy access. In order to provide this service we designed simple platform to the Students Information Management System as a project which has various of modules which is helpful for the student administration to the of efficiently faculty manages them student's details,easily Keywords:- Student information management system, Student information activity, Administration process, Manging capability.

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CONCLUSION

Our project is Student information management system lead to a better organization structure since the information management of the students is well structured and also lead to better as well as efficient utilization of resources. Student Information Management System can be used by education institutes to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project,

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CULTURAL HERITAGE IN AUGMENTED REALITY

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ABSTRACT

Augmented reality (AR) is the integration of digital information with the user's environment in real time. AR technology is the latest technology that is being used widely in almost every sector. The aim of connecting smart-phones and Augmented Reality technology is huge using it in a proper way provide greater benefits. The main objective of the application is to replace paper-based menu cards with digital AR application. This makes the users to understand schedule which is followed in the hostel of MKCE. It is feasible for the clients to simply point their mobile phones in the days of the week to show the menu. AR food menu displays virtualfood consisting of virtual image in digital rendering photographs of food on the plate. It givesnew experience to the user who is visiting the hostel.

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CHAPTER 7

CONCLUSION

The main goal of this study was to identify and overview the most significant topics from the last decade in the field of augmented reality and cultural heritage. AR is a very effective solution for showcasing 3D reconstructed artifacts. It can also be used to identify the most appropriate restoration approach to produce a realistic replica, which reduces costs and speeds up the restoration process. The results indicate that AR systems are a positive step towards reducing the distance between the people and cultural sites. Our product of AR application enables the people to view the cultural sites virtually and because of this software the cultural sites in our country would get more popularity.

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A Minor Project Report

on

AUTOMATIC WATER IRRIGATION SYSTEM USING ARDUINO

Submitted in partial fulfillment of requirements for the award of the Degree of

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ASSITANT PROFESSOR/IT,
Department of Information Technology,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur-639113.

SIGNATURE

Dr. R. PUNITHAVATHI M.E., Ph.D.,
HEAD OF THE DEPARTMENT,
Department of Information Technology,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur-639113.

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CHAPTER 7

CONCLUSION

An automatic plant irrigation system using Arduino is designed in this project. The prototype of the model worked properly when tested on different soils. The components that we use in the system are readily available and easy to operate. Thus, this system acts as an effectual method of irrigation. It is far better than the manual irrigation process which requires a lot of manpower and time. By using the app, the farmer can operate the system from distant places. The farmer can utilize this time in other significant activities. Thus, this system can be very useful in areas where water is in short supply. As the required amount of water is provided to the crop, the crop growth is better. Farmers can thus benefit from the enhanced crop yields. The project is tested for different types of soils, and it works properly. The future work of the system can include the addition of temperature sensors and a more powerful motor to pump water to the fields. Thus, the large-scale implementation of the project can also be done.

M.KUMARASAMY
COLLEGE OF ENGINEERING
(An Autonomous Institution)
Thalavapalayam, Karur - 639 113.

A Minor Project Report On

CLIMATE ADAPTIVE STREET LIGHT GLOWING SYSTEM USING ARDUINO

Submitted in in partial fulfillment of requirements for the award of the Degree

of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

Dr.S.GEEITHA M.E.,Ph.D.,

(Associate Professor)

Submitted By

NAVINA N	**20BIT4062**
SUVETHA	**20BIT4091**
THIRILOSANA J	**20BIT4095**
THOSHITHA D	**20BIT4096**

DEPARTMENT OF INFORMATION TECHNOLOGY

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113.

MAY 2023

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report **"CLIMATE ADAPTIVE STREET LIGHT GLOWING SYSTEM USING ARDUINO"** is the bonafide work of "NAVINA N (20BIT4062), SUVETHA R (20BIT4091), THIRILOSANA J (20BIT4095),THOSHITHA D (20BIT4096)" who carried out the minor project work during the academic year 2019 under our supervision certified further , that to the best of our knowledge the work reported here in does not form part of any other minor project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate .

Signature

Dr.S.Geeitha M.E.,Ph.D.,
ASSOCIATE PROFESSOR,
Department of Information Technology,
M.Kumarasamy College of Engineering,
Thalavapalayam,Karur – 639113.

Signature

Dr.R.Punithavathi M.E.,Ph.D.,
HEAD OF THE DEPARTMENT,
Department of Information Technology,
M.Kumarasamy College of Engineering,
Thalavapalayam,Karur-639113.

ABSTRACT

Today energy is the main inspiration for socio-economic development. But due to incremental rate of environmental concern renewable energy provide a significant interest. This alternative power source is continuously achieving greater popularity due to continuous reduction in fossil fuels. It is the energy comes from sun, wind, rain etc. Among the non-conventional, renewable energy sources, solar energy affords great potential for conversion into electric power. Maximizing power output from a solar system is desirable to increase efficiency. In order to maximize power output, needs to keep the panels aligned with the sun. This paper deals with the electricity generation using solar power. The proposed system ensures the optimization of the conversion of solar energy into electricity by properly orienting the panel in accordance with the position of the sun. The operation of the paper is based on a Stepper motor intelligently moves a panel according to the light intensity of the sun sensing by light sensor.

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CHAPTER-9

9.1 CONCLUSION AND FUTURE ENHANCEMENTS

This project is the solution to help the people to save the manpower and the wastage of current by preventing. The LED will glow automatically based on the light detected from the sun (solar panel) which in turn the LED light will not glow the will turn ON only when there is no proper light is detected from the sun. By using this project, current can be saved for our future generations In future, more detection, system like gas detection systems can be Implemented. Additional feature includes more secure systems like a call will be gone to a telephone number if a gas leakage and fire in a network area like LAN and internet used to world wild

Criterion 1: Curricular Aspects

1.3 Curriculum Enrichment

1.3.4.1: Number of students undertaking field projects / internships / student projects

Programme Name: B.Tech Information Technology.

Industrial Visit Proof

NIFOT/2210003

14.10.2022

To whomsoever it may concern

This is to certify that 60 students (II Year, B.Tech, Information Technology Engineering) **"M.Kumarasamy College of Engineering, Thalavapalayam, Karur, Tamilnadu"** has visited our facility on 14th October 2022. They were familiarised with basics of fiber optics along with fiber optic passive products, splicing and testing.

This certificate is being issued in compliance with their academic requirement.

Manager
NeST Institute of Fiber Optic Technology

Students Name List who attended the Industrial Visit at our Facility on 14th Oct 2022

Sl.No	Reg.No	Name	Sl.No	Reg.No	Name
1	927621BIT002	AJAY V	31	927621BIT062	MANOJ KANNAN K R
2	927621BIT007	ASWIN KUMAR S	32	927621BIT063	MEIARUL S
3	927621BIT011	BHARATH RAJ V	33	22LIT011	PRANESH P
4	927621BIT012	BOMMANESH S	34	927621BIT064	MIDHUN D
5	927621BIT013	BOOPATHI M	35	927621BIT065	MITHUN MAIL M
6	927621BIT015	CHANDRA MOULI S T	36	927621BIT067	MUKESH K
7	927621BIT016	DARSHAN M S	37	927621BIT068	MUTHUGANESH D
8	927621BIT018	DHANUSH S	38	927621BIT072	NASEEM A
9	927621BIT019	DHANUSH S S	39	927621BIT073	NAVABHARATHI S
10	927621BIT020	DHARANEESWARAN S	40	927621BIT075	NAVEENKUMAR K
11	927621BIT021	DHARANIKUMARAN S K	41	927621BIT077	NIJANTH R
12	927621BIT026	DHIVINKUMAR A	42	927621BIT076	NIDEESH AG
13	927621BIT027	ESVANTH M	43	927621BIT085	PIRANAVSHARAN S B
14	927621BIT028	GOPINATH V	44	927621BIT086	PRANESH P
15	927621BIT030	GOWTHAM A	45	927621BIT087	PRASANNA BALAJI L
16	927621BIT031	GOWTHAM G	46	927621BIT089	RAJAVISHNU A K
17	927621BIT032	GUNA K	47	927621BIT091	RISHI B
18	927621BIT034	HAREESHRAVI S	48	927621BIT096	SANJAI B
19	927621BIT036	INIYAN B	49	927621BIT097	SANJAI KUMAR S
20	927621BIT037	JAGADHEESWARAN T	50	927621BIT099	SANJAY S
21	927621BIT038	JAGANNATH.M.G	51	927621BIT102	SHANKAR S
22	927621BIT039	JANARTHANAN S	52	927621BIT024	DHEENA P
23	927621BIT041	KABHILAN L	53	927621BIT105	SIVASANKAR S
24	927621BIT045	KAVIN PRAJITH C	54	927621BIT111	SUTHARSAN G
25	927621BIT051	KHAMALESH K	55	927621BIT115	SYED MUSHARAF S
26	927621BIT053	KISHORE B S	56	927621BIT119	THIRUKKUMARAN D
27	927621BIT054	KUPENDHRAN R	57	927621BIT123	VASU S
28	927621BIT056	LENIN S	58	927621BIT126	YUVARAJ S
29	927621BIT057	LOGESHWARAN R M	59	927621BIT117	THENDRALARASAN K
30	927621BIT059	MADHAVAN P T A	60	22LIT009	SABAPATHI K

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous)
Karur – 639 113

INDUSTRIAL VISIT APPROVAL FORM

Department	Name of the Applicant	Date
Information Technology	Kalaiarasan K	12/10/2022

Kindly read the Guidelines before fill the form

1	Type of Visit	:	Industrial Visit
2	Date & Time of Departure	:	13/10/2022 & 9.30 PM
3	Date & Time of Arrival	:	15/10/2022 & 9.00 PM
4	Address & Phone Nos. (for contact)	:	Mr.Kalaiarasan K, AP/IT, MKCE 7708331331
5	Mode of Travel	:	Bus
6	Copy of Approval letter from Industry	:	Yes
7	Accompanying Faculty Details and Undertaking Letter	:	Yes
8	List of Students Male/Female	:	Yes
9	Accommodation Details with Confirmation letter	:	Yes
10	Undertaking Letter From Students	:	Yes
11	Approval from HoD	:	12/10/22 Head of the Department Department of Information Technology M. Kumarasamy College of Engineering (Sign with Seal) (Autonomous) Thalavapalayam - Karur.
12	Approval from Principal	:	13/10/22 (Sign with Seal) PRINCIPAL, M.Kumarasamy College of Engineering, THALAVAPALAYAM, KARUR - 639 113

Note: The Form should be submitted two weeks prior to the departure

Approval after checking (Check List)

Mode of Travel ☐ Approval - Industry ☐ Faculty Details ☐ Students Details ☐ Undertaking Students ☐ Undertaking Faculty ☐ Accommodation ☐

Annexure 1

Mode of Travel

Sl.No	Details	Mode of Travel	Travel Details * with Phone number of Agent and Driver Phone Number	Responsible Person Handling
1.	From MKCE to Bus Stop/Railway Station/Airport	Bus	Agency Name : Unplanned Trips Agent No: 9080086556 (Muruganantham) **Boys** Bus Name : Jayalakshmi Bus No: TN 20 AH 7951 Driver Name : Ramraj Driver no: 9994267490 **Girls** Bus Name : Sahana Bus No : TN 55 AZ 6667 Driver Name : Rajasekar Driver No : 9080767870	Mr.A.Vijay AP/IT & Mrs.M.Sowmiya AP/IT
2.	From Railways Station to Travel Destination	Train (Attach copy of Train Ticket etc)		
3.	Destination place to Industry Area and Back			
4.	Return Journey Details			

Accompanying Faculty

Sl.No	Gender	Name of the Faculty/ Designation	Male/Female	Contact Mobile Number and Email	Alternate Contact In case of Emergency
1	Boys	Mr.A.Vijay AP/IT	Male	9942712798 vijaya.it@mkce.ac.in	
2		Dr.P.Balamurugan, AP/Maths	Male	9003573812 balamurugap.snh@mkce.ac.in	
3.	Girls	Mrs.M.Sowmiya, AP/IT	Female	9360725311 sowmiyam.it@mkce.ac.in	
4.		Ms.K.Anitha, AP/IT	Female	9629225360 anithak.it@mkce.ac.in	

UNDERTAKING LETTER - FACULTY

We here-by undertake that the Industrial Visit/Cultural Visit/ Field Trip is purely academic related and at any case.

We shall undertake full responsibility of the student's actions and behavior at all times during the course of Industrial Visit/Cultural Visit/ Field Trip/ Sports meet. We further undertake not to breach the safety guidelines of MKCE at any cost.

Sl.No	Name	Designation/ Dept.	Signature
1.	Mr.A.Vijay	AP/IT	
2.	Dr.P.Balamurugan	AP/IT	
3.	Mrs.M.Sowmiya	AP/IT	
4.	Ms.K.Anitha	AP/IT	

List of Students Details

Sl.No	Reg.No	Name	Mobile Number	Male/ Female	DEPT & SEC
1	927621BIT002	AJAY V	6374883021	Male	A
2	927621BIT004	AMIRTHA C S	7358424319	Female	A
3	927621BIT005	AMRUTHA S	9442583428	Female	A
4	927621BIT007	ASWIN KUMAR S	9715597767	Male	A
5	927621BIT009	BALAHARINI K	9342309226	Female	A
6	927621BIT010	BARATHI S	9514670500	Male	A
7	927621BIT011	BHARATH RAJ V	9629270761	Male	A
8	927621BIT012	BOMMANESH S	7010433740	Male	A
9	927621BIT013	BOOPATHI M	7639461237	Male	A
10	927621BIT014	BRINDHA S	9360361941	Female	A
11	927621BIT015	CHANDRA MOULI S T	9361646273	Male	A
12	927621BIT016	DARSHAN M S	9600608093	Male	A
13	927621BIT017	DEEBIKA C	9363049470	Female	A
14	927621BIT018	DHANUSH S	6369837352	Male	A
15	927621BIT019	DHANUSH S S	9342617652	Male	A
16	927621BIT020	DHARANEESWARAN S	9345786047	Male	A
17	927621BIT021	DHARANIKUMARAN S K	9489153707	Male	A
18	927621BIT026	DHIVINKUMAR A	9345354922	Male	A
19	927621BIT027	ESVANTH M	6369051038	Male	A
20	927621BIT028	GOPINATH V	7010535354	Male	A
21	927621BIT030	GOWTHAM A	9677668458	Male	A
22	927621BIT031	GOWTHAM G	8883528885	Male	A
23	927621BIT032	GUNA K	8524974832	Male	A
24	927621BIT034	HAREESHRAVI S	6380635396	Male	A
25	927621BIT036	INIYAN B	6383028076	Male	A
26	927621BIT035	INITHA M	6382955942	Female	A
27	927621BIT037	JAGADHEESWARAN T	9342791842	Male	A
28	927621BIT038	JAGANNATH.M.G	9677735549	Male	A
29	927621BIT039	JANARTHANAN S	9677656825	Male	A
30	927621BIT040	JAYASHREE S	9443220994	Female	A

31	927621BIT041	KABHILAN L	6369633916	Male	A
32	927621BIT042	KAMALA LAKSHMI PRIYA M A	7598370553	Female	A
33	927621BIT045	KAVIN PRAJITH C	8682874974	Male	A
34	927621BIT046	KAVIPRIYA M	9345333213	Female	A
35	927621BIT047	KEERRTHI S S	6384088175	Female	A
36	927621BIT048	KEERTHANA C	7708551675	Female	A
37	927621BIT049	KEERTHANA S	9500810231	Female	A
38	927621BIT050	KEERTHIGA N	9994042492	Female	A
39	927621BIT051	KHAMALESH K	8838166684	Male	A
40	927621BIT052	KIRUTHIKA B	8940105577	Female	A
41	927621BIT053	KISHORE B S	6369533583	Male	A
42	927621BIT054	KUPENDHRAN R	9342379880	Male	A
43	927621BIT055	LAKSHMI PRABHA R V	9025722729	Female	A
44	927621BIT056	LENIN S	9345806737	Male	A
45	927621BIT057	LOGESHWARAN R M	9363375143	Male	A
46	927621BIT058	LYDIA M	8098956968	Female	A
47	927621BIT059	MADHAVAN P T A	8248096579	Male	A
48	927621BIT062	MANOJ KANNAN K R	9500471005	Male	A
49	927621BIT063	MEIARUL S	9080914511	Male	A
50	22LIT011	PRANESH P	9943988955	Male	A
51	927621BIT064	MIDHUN D	8248763453	Male	B
52	927621BIT065	MITHUN MAIL M	7598253045	Male	B
53	927621BIT067	MUKESH K	9047372121	Male	B
54	927621BIT068	MUTHUGANESH D	7639298318	Male	B
55	927621BIT072	NASEEM A	9585113535	Male	B
56	927621BIT073	NAVABHARATHI S	6383135966	Male	B
57	927621BIT075	NAVEENKUMAR K	9944456136	Male	B
58	927621BIT077	NIJANTH R	9600464610	Male	B
59	927621BIT076	NIDEESH AG	7708076533	Male	B
60	927621BIT079	NITHIKA SREE S	6379789262	Female	B
61	927621BIT081	NIVETHA K	9894116612	Female	B
62	927621BIT082	NIVETHA M	9345151733	Female	B

63	927621BIT084	PAVITHRA P	9361316669	Female	B
64	927621BIT085	PIRANAVSHARAN S B	9994160433	Male	B
65	927621BIT086	PRANESH P	7708552852	Male	B
66	927621BIT087	PRASANNA BALAJI L	6381689842	Male	B
67	927621BIT088	RAJALAKSHMI S	9363080224	Female	B
68	927621BIT089	RAJAVISHNU A K	9344957157	Male	B
69	927621BIT090	RAKSHANA A	9942358733	Female	B
70	927621BIT091	RISHI B	9488852225	Male	B
71	927621BIT092	RITHU VARSHINI N S	9514336384	Female	B
72	927621BIT094	RUBIGADEVI R	8015500140	Female	B
73	927621BIT095	SAMAYA S	9524743149	Female	B
74	927621BIT096	SANJAI B	6383939253	Male	B
75	927621BIT097	SANJAI KUMAR S	7708074529	Male	B
76	927621BIT099	SANJAY S	6374311268	Male	B
77	927621BIT101	SATHYAPRIYA M	9345878638	Female	B
78	927621BIT102	SHANKAR S	7708979764	Male	B
79	927621BIT103	SHRUTI V	6382520141	Female	B
80	927621BIT024	DHEENA P	9363159291	Male	A
81	927621BIT105	SIVASANKAR S	7812866727	Male	B
82	927621BIT106	SOPHIYA THERESA F	9342834811	Female	B
83	927621BIT107	SOWMIYA K	9344567736	Female	B
84	927621BIT108	SRI RAJA RAJESWARI D	9342443050	Female	B
85	927621BIT109	SUDHA B	7539985433	Female	B
86	927621BIT110	SUDHEKSHA B	9597406905	Female	B
87	927621BIT111	SUTHARSAN G	7395879362	Male	B
88	927621BIT113	SWATHI G	8148066013	Female	B
89	927621BIT115	SYED MUSHARAF S	8825967532	Male	B
90	927621BIT116	THANU SHREE K S	6381909712	Female	B
91	927621BIT119	THIRUKKUMARAN D	9500320473	Male	B
92	927621BIT120	VAISHALI S	8778189217	Female	B
93	927621BIT121	VANATHI S	9025848858	Female	B
94	927621BIT122	VARSHINI L	9597956986	Female	B
95	927621BIT123	VASU S	8925095847	Male	B

96	927621BIT124	VIVETHA HARINI S	7548884071	Female	B
97	927621BIT125	YUVA SRI K	9344410043	Female	B
98	927621BIT126	YUVARAJ S	9360583061	Male	B
99	927621BIT117	THENDRALARASAN K	9994719656	Male	B
100	22LIT009	SABAPATHI K	9363383287	Male	B

Annexure 5

Accommodation

Sl.No		Name of Hotel/Guest House	Address and Phone Numbers	Responsible Person Handling	Remarks
1	BOYS	Metro Residency	Kandoth Avenue, Aroor, Kochi, Kerala 682017 Phone: 07947477622,9895898099	Mr.A.Vijay	
2	GIRLS	Green garden cottage	Pullikkanam - Elappara Road, Kerala 685503 Phone: +91 8289958251	Mrs.M.Sowmiya	

UNDERTAKING LETTER - STUDENTS

We the students of **II Year Information Technology** department of M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kochin organized on date 12/10/2022 departure date 13/09/2022 time 9.30PM from MKCE to Kochin (Boys) & MKCE to Vagamon(Girls) and arrival on date 15/10/2022 time 9.00PM at MKCE. Faculty and staff of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
1	927621BIT002	AJAY V	
2	927621BIT004	AMIRTHA C S	
3	927621BIT005	AMRUTHA S	
4	927621BIT007	ASWIN KUMAR S	
5	927621BIT009	BALAHARINI K	
6	927621BIT010	BARATHI S	
7	927621BIT011	BHARATH RAJ V	
8	927621BIT012	BOMMANESH S	
9	927621BIT013	BOOPATHI M	
10	927621BIT014	BRINDHA S	
11	927621BIT015	CHANDRA MOULI S T	
12	927621BIT016	DARSHAN M S	
13	927621BIT017	DEEBIKA C	
14	927621BIT018	DHANUSH S	
15	927621BIT019	DHANUSH S S	
16	927621BIT020	DHARANEESWARAN S	
17	927621BIT021	DHARANIKUMARAN S K	
18	927621BIT026	DHIVINKUMAR A	
19	927621BIT027	ESVANTH M	
20	927621BIT028	GOPINATH V	
21	927621BIT030	GOWTHAM A	
22	927621BIT031	GOWTHAM G	
23	927621BIT032	GUNA K	
24	927621BIT034	HAREESHRAVI S	
25	927621BIT036	INIYAN B	
26	927621BIT035	INITHA M	

We the students of **II Year Information Technology** department of M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kochin organized on date 12/10/2022 departure date 13/09/2022 time 9 30PM from MKCE to Kochin (Boys) & MKCE to Vagamon(Girls) and arrival on date 15/10/2022 time 9 00PM at MKCE. Faculty and staff of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
27	927621BIT037	JAGADHEESWARAN T	
28	927621BIT038	JAGANNATH.M.G	
29	927621BIT039	JANARTHANAN S	
30	927621BIT040	JAYASHREE S	
31	927621BIT041	KABHILAN L	
32	927621BIT042	KAMALA LAKSHMI PRIYA M A	
33	927621BIT045	KAVIN PRAJITH C	
34	927621BIT046	KAVIPRIYA M	
35	927621BIT047	KEERRTHI S S	
36	927621BIT048	KEERTHANA C	
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40	927621BIT052	KIRUTHIKA B	
41	927621BIT053	KISHORE B S	
42	927621BIT054	KUPENDHRAN R	
43	927621BIT055	LAKSHMI PRABHA R V	
44	927621BIT056	LENIN S	
45	927621BIT057	LOGESHWARAN R M	
46	927621BIT058	LYDIA M	
47	927621BIT059	MADHAVAN P T A	
48	927621BIT062	MANOJ KANNAN K R	
49	927621BIT063	MEIARUL S	
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55	927621BIT072	NASEEM A	
56	927621BIT073	NAVABHARATHI S	
57	927621BIT075	NAVEENKUMAR K	
58	927621BIT077	NIJANTH R	

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Sl.No	Reg.No	Name	Signature
59	927621BIT076	NIDEESH AG	A. G. Nideesh
60	927621BIT079	NITHIKA SREE S	Nithika. S.
61	927621BIT081	NIVETHA K	K. Nivetha.
62	927621BIT082	NIVETHA M	M. Nivetha.
63	927621BIT084	PAVITHRA P	P. Pavithra
64	927621BIT085	PIRANAVSHARAN S B	
65	927621BIT086	PRANESH P	P. Pranesh
66	927621BIT087	PRASANNA BALAJI L	L.
67	927621BIT088	RAJALAKSHMI S	Rajal. S.
68	927621BIT089	RAJAVISHNU A K	A.K.
69	927621BIT090	RAKSHANA A	A.
70	927621BIT091	RISHI B	B. R
71	927621BIT092	RITHU VARSHINI N S	N.S. Rithu
72	927621BIT094	RUBIGADEVI R	R. Rubiga dev.
73	927621BIT095	SAMAYA S	S. Samaya.
74	927621BIT096	SANJAI B	B.S.
75	927621BIT097	SANJAI KUMAR S	Sanjai Kumar
76	927621BIT099	SANJAY S	S.
77	927621BIT101	SATHYAPRIYA M	M. Sathya Priya
78	927621BIT102	SHANKAR S	S.
79	927621BIT103	SHRUTI V	V. Shruti
80	927621BIT024	DHEENA. P	P.
81	927621BIT105	SIVASANKAR S	Siva
82	927621BIT106	SOPHIYA THERESA F	F. Shophiya.
83	927621BIT107	SOWMIYA K	K. Sowmiya
84	927621BIT108	SRI RAJA RAJESWARI D	D. Raji.
85	927621BIT109	SUDHA B	B. Sudha

We the students of **II Year Information Technology** department of M Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kochin organized on date 12/10/2022 departure date 13/09/2022 time 9.30PM from MKCE to Kochin (Boys) & MKCE to Vagamon(Girls) and arrival on date 15/10/2022 time 9.00PM at MKCE. Faculty and staff of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
86	927621BIT110	SUDHEKSHA B	B. Sudhekshan
87	927621BIT111	SUTHARSAN G	G. Sutharsan
88	927621BIT113	SWATHI G	G. Swathi
89	927621BIT115	SYED MUSHARAF S	Syed
90	927621BIT116	THANU SHREE K S	K.S. Thanushree
91	927621BIT119	THIRUKKUMARAN D	D. Thirukkumaran
92	927621BIT120	VAISHALI S	S. Vaishali
93	927621BIT121	VANATHI S	S. Vanathi
94	927621BIT122	VARSHINI L	Varshini. L
95	927621BIT123	VASU S	S. Vasu
96	927621BIT124	VIVETHA HARINI S	S. Vivetha Harini
97	927621BIT125	YUVA SRI K	K. Yuvasri
98	927621BIT126	YUVARAJ S	S. Yuvaraj
99	927621BIT117	THENDRALARASAN K	K. Thendralarasan
100	22LIT009	SABAPATHI K	K. Sabapathi

GUIDELINES TO GET FINAL APPROVAL FOR INDUSTRIAL VISIT/ CULTURAL VISIT/ SPORTS MEETS/ FIELD TRIP

- The Dean approving the Industrial Visit/Field Trip etc., shall ensure and endorse that the faculty members attached to the tour submit an undertaking stating that the tour is arranged only for Industrial Visit/ Field Trip connected to academics, and students will not be taken or allowed to **mountain areas, rivers, canals, beaches, water parks, reservoirs, forest areas etc.**,; and, they are personally liable and answerable for any such untoward incident taking place during the tour.
- Places with potential hazards, such as political unrest, negligent security, disease outbreaks, threats of earthquake or frequent occurrence of Cyclone and flood, should be avoided.
- If the mode of transport is by bus, overnight travel is strictly not permitted. Any travel requiring more than 24 hours should not be by road (Preferable mode of Transport is Train).
- Faculty/staff arranged students' un-official tours shall be treated as violation of MKCE Rules and the individuals organizing or arranging to organize such tours shall be subjected to appropriate disciplinary action.
- The capability of the participants to take part meaningfully in the activity must be taken into consideration when deciding the destination, itinerary and duration of the tour.
- The detailed tour schedule shall be submitted well in advance mentioning the date, time and place of departure and arrival, mode of travel (Bus/Train/Air/Ship/Other Modes), outstation accommodation arrangement details, list of important telephone numbers and addresses of the locations where the team is visiting including the phone-fax numbers of the hotel and local transport details.
- **If Travel by outside bus, FC copy of the bus should be produced with request form.**
- **Each study tour should maintain student faculty ratio of 40 : 1.**
- **Lady faculty member should accompany girl students (It is applicable even if only one girl student is going for a trip)**
- The Accompanying faculties should submit the undertaking letter
- All students should get approval from their Counselor/Class Advisor and parents.
- The faculty members accompanying the group may be mix of multiple languages talented in order to manage tour affairs confidently and successfully.
- Faculty should authorize the complete schedule
- Club coordinator should accompany in case of representing any club
- List of students – with details (Male / female) to be submitted.
- At least one faculty member (either male or female) of the group needs to be fully acquainted with the touring stations so that they can guide and instruct students in an appropriate way accordingly to see that the students are not getting into any unforeseen incident or accident. Information relevant to the itinerary, such as the addresses and telephone numbers of the lodging places, location of the local police stations, hospitals, clinics or first-aid units as well as the emergency call numbers en route, should be collected. Such information should be given to the parents and the responsible person in the school before the trip for emergency needs.
- It is preferable to arrange two students (of same gender) or more to live in a room when allocating accommodation. This will facilitate provision of support to fellow members. Once the arrangement for accommodation is finalized, no student should be allowed to make any change without a proper reason so as to avoid causing confusion.
- No student shall be compelled to participate or to contribute money for any kind of tour just for the sake of fund management during the tour. In case of any such compulsion, the student(s) can report to the Faculty Incharge.

- The parents/guardians of the students (those who are participate in the tour) may be asked to submit an undertaking (by mail or fax or hard copy) stating that the parent is permitting their ward to participate in the tour with their knowledge and at their own risk. Students if they are hostellers, they should get special leave approval from their respective Hostel authorities.
- Exit and Entry should be at MKCE (Faculty and Students joining the group from their hometowns and leaving to their hometowns after the tour is not permitted under any circumstances)
- Before leaving for Industrial Visit/ Sports Meet / Field Trip / Cultural trip etc., concerned faculty organizer shall arrange to procure adequate and proper FIRST AID KIT if necessary. The faculty members shall accompany the students throughout the tour/trip and shall stay along with the students.
- No faculty member attached to the tour shall alternate or replace other faculty/staff member on his/her behalf without prior proper approval of the HoD/Dean.
- It is advisable that at least one of the faculty or participants should know first aid and use of Fire extinguishers.
- Students should be reminded of the need to follow the Faculty instructions and observe all the safety regulations throughout the trip.
- After checking in a local hotel, the students should first find out where the "fire escape" is. They should also acquaint themselves with the exit direction, the escape route and the place of assembly in case of emergency.
- Faculty accompanying should pay attention to the weather forecasts and news broadcasts of the place of visit. If there is any change in weather or other conditions, a contingency plan should be worked out as soon as possible.
- The faculty should have full knowledge of the health condition of each participant in order to determine whether specific participant(s) should not be allowed to take part in the activities of the day. He/she should take timely and appropriate action having regard to the circumstances of individual cases.
- The faculty should also arrange for any sick member to see the doctor immediately and to take effective preventive measures according to the doctor's advice. If necessary, the faculty should inform the parents and the department regarding the students' health conditions as soon as possible.
- The faculty should bring along with him/her the necessary safety equipment for the tour, for example, a first aid box, communications equipment (mobile phones), torches, medicines, etc.
- The faculty should monitor the speed of the vehicle (bus) in which they are traveling to ensure it is within safety limits. He/she should remind the driver or the reception personnel of the importance of road safety when necessary.
- After returning from the tour, the concerned faculty team shall submit a **BRIEF ARRIVAL REPORT** to the HoD/Dean.
- Students attending the IV should submit an observation report.

Kalaiarasan K <kalaiarasank.it@mkce.ac.in>

Fwd: Regarding the industrial visit.

1 message

ONYX <dcruzzx02@gmail.com>
To: Kalaiarasank.it@mkce.ac.in

Wed, Oct 12, 2022 at 10:44 AM

---------- Forwarded message ---------
From: **Nifot** <nifot@nestgroup.net>
Date: Tue, 11 Oct 2022, 15:03
Subject: RE: Regarding the industrial visit.
To: ONYX <dcruzzx02@gmail.com>
Cc: Saaju Joseph <saaju.joseph@nestgroup.net>, Maxie Antony <maxie.antony@nestgroup.net>, Tony K. Jose <tony.k@nestgroup.net>

Dear Sir,

Thank You for contacting NeST .

We can give permission for an Industrial Visit to our training division at Aluva. Students will get an overview about our manufacturing and software operations and also an introduction to our software training and fiber optic training centers, including a visit to our state-of-the-art fiber optic lab. This would be on a chargeable basis.

Normal fee per student for the visit is Rs 250+18% tax, but we provide a special discount for the students from your college considering the number of students.

Revised fee will be Rs 150/- including tax per student. Fees once paid will not be refunded.

Above fee is applicable only if the total batch size is 50 or above.

As per your request, the visit is scheduled to take place on 14th October 2022, morning session.

Students can report in our campus by 9.30 AM on the specified date, with the permission letter from the college (not mandatory) and college id card

If there is any change in date and time , the same shall be informed well in advance

Thanks & Regards

NeST Institute of Fiber Optic Technology Pvt. Ltd.

...Bridge Road, Aluva
...India 683101
☎ +91-484-4020811
+91-974 4145333
www.nestifot.com

From: ONYX <dcruzzx02@gmail.com>
Sent: 11 October 2022 14:18
To: CyberCampus Aluva <cybercampus.alv@nestgroup.net>
Subject: Regarding the industrial visit.

Dear Mam/sir,

On behalf of M Kumarasamy College of Engineering where I serve as a student , I wish to request for permission to conduct an industrial visit at company (NEST CYBER CAMPUS).Our college is reputed at providing quality education in the various courses in Karur.

We wish to undertake an industrial visit at your company on 14.10.2022 to acquire knowledge. Our academic curriculum focuses on engaging students in practical experiences to observe the implementation of what they are taught in M Kumarasamy College of Engineering.we believe your company will give our students relevant knowledge during this visit.

There would be 64 visitors accompanied with 2 faculty members

Kindly grant us permission for the industrial visit and make the necessary arrangements for the same .(cordially describe your greetings and expectation).We look forward to a positive reply from your side.

Thanking You,

Yours Sincerely,

Lenin S

Contact no: 9345806737

Kalaiarasan K <kalaiarasank.it@mkce.ac.in>

Fwd: industrial visit regarding

2 messages

Lenin Saravanan <leninsaravanan11@gmail.com>
To: "kalaiarasank.it@mkce.ac.in" <kalaiarasank.it@mkce.ac.in> Wed, Oct 12, 2022 at 9:11 AM

---------- Forwarded message ---------
From: **Lenin Saravanan** <leninsaravanan11@gmail.com>
Date: Tue, Oct 11, 2022, 3:53 PM
Subject: Fwd: industrial visit regarding
To: <thanushree.sakthivel26@gmail.com>

---------- Forwarded message ---------
From: **Nifot** <nifot@nestgroup.net>
Date: Tue, Oct 11, 2022, 3:01 PM
Subject: RE: industrial visit regarding
To: Lenin Saravanan <leninsaravanan11@gmail.com>
Cc: Saaju Joseph <saaju.joseph@nestgroup.net>

Dear Thanushree,

Thank You for contacting NeST .

We can give permission for an Industrial Visit to our training division at Aluva. Students will get an overview about our manufacturing and software operations and also an introduction to our software training and fiber optic training centers, including a visit to our state-of-the-art fiber optic lab. This would be on a chargeable basis.

Normal fee per student for the visit is Rs 250+18% tax, but we provide a special discount for the students from your college considering the number of students.

Revised fee will be Rs 150/- including tax per student. Fees once paid will not be refunded.

As per your request, the visit is scheduled to take place on 15th October 2022, morning session.

Students can report in our campus by 9.30 AM on the specified date, with the permission letter from the college (not mandatory) and college id card.

If there is any change in date and time , the same shall be informed well in advance.

Thanks & Regards

NeST Institute of Fiber Optic Technology Pvt. Ltd.

From: Lenin Saravanan <leninsaravanan11@gmail.com>
Sent: 11 October 2022 14:17
To: CyberCampus Aluva <cybercampus.alv@nestgroup.net>
Subject: industrial visit regarding

Dear Sir/Mam:

On behalf of M Kumarasamy College of Engineering where I serve as a student, I wish to request for permission to conduct an industrial visit at your company (Nest Cyber Campus).

Our college is reputed at providing quality education in the various courses in karur. We wish to undertake an industrial visit at your company on 15.10.22 to acquire practical knowledge. Our academic curriculum focuses on engaging students in practical experiences to observe the implementation of what they are taught in our college There would be 40 students, along with two faculty members. Being students of the department of information technology, this visit would help in better understanding of various concepts.We intend to take a round of the entire industry and show the tasks handled in different departments of our students. Kindly grant us permission for industrial visit and make the necessary arrangements for the same.we look forward to a positive reply from your side ,

Thanking you.

yours faithfully

Thanushree K S

Contact no: 6381909712

Lenin Saravanan <leninsaravanan11@gmail.com> Wed, Oct 12, 2022 at 9:11 AM
To: kalaiarasank.it@mkce.ac.in

---------- Forwarded message ---------
From: **Nifot** <nifot@nestgroup.net>
Date: Tue, Oct 11, 2022, 2:59 PM
Subject: RE: industrial visit regarding
To: Lenin Saravanan <leninsaravanan11@gmail.com>
Cc: Saaju Joseph <saaju.joseph@nestgroup.net>, Maxie Antony <maxie.antony@nestgroup.net>, Tony K. Jose <tony@nestgroup.net>

Dear Madam,

[Quoted text hidden]

Faculty Name List

S.No	Name	Designation
1	Mr.A.Vijay	AP/IT
2	Dr.P.Balamurugan	AP/Maths
3	Mrs.M.Sowmiya	AP/IT
4	Ms.K.Anitha	AP/IT
5	Mrs.T.Vanitha sri	Staff

HOD

Head of the Department
Department of Information Technology
M. Kumarasamy College of Engineering
(Autonomous)
Thalavapalayam - Karur.