



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 Artificial Intelligence and Data Science.

Sl.No.	Description	Page Number
1	Internships	1 - 66
2	Minor Projects	67 - 319
3	Industrial Visit	320 - 358



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 Artificial Intelligence and Data Science.

Internships Proof



M.KUMARASAMY
COLLEGE OF ENGINEERING

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution

Thalavapalayam, Karur - 639 113.




DEPARTMENT OF ARTIFICIAL INTELLIGENCE

INDUSTRY INTERNSHIP

/

S.No	Student Name	Company Name	Place	Duration	Contact	Remarks
1.	Kiruthika S (20BAI4025)	Cloudside Technologies Pvt. Ltd.	Bangalore	01.09.2022- 01.10.2022	Mr.Pramod Ramachandran/Senior Technical Architect (9741455776)	Machine Learning
2.	Ashwin Kumaran M (20BAI4002)	MISTRAL Solutions, Pvt. Ltd	Bangalore	04.07.2022- 06.08.2022	Ms.Karthika/HR (95666347926)	Software Design & Computer Vision


Department of Artificial Intelligence & Data Science,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur-639 113.

Coimbatore
1-06-2023

To Whomsoever it may concern

Sub: Internship Certificate

This is to certify that Ms. Kiruthika S, worked as an ML Engineer Intern for Cloudside Technologies Private Limited from September 05, 2022 to May 31, 2023.

Her conduct was found to be good and satisfactory during her tenure with us, and there are no outstanding dues from either party.

We wish her great success in all of her future endeavors.

Thanks,



Karthika S
HR Manager
Cloudside Technologies Private Limited

Note: System-Generated Letter

Kiruthika S

9500861449

kiruthikas2020ai@gmail.com

Dear Kiruthika S,

We are pleased to offer you the position of ML Engineer - Intern in our company with effect from 05-Sep-2022. Your stipend will be INR 10,000 per month for all the months you are available and contributing for 20 hours per week. We are also happy to support your education by taking care of your tuition fees, up to a maximum of INR 85,000 per academic year during your undergraduate course on submission of necessary receipts. The detailed terms and conditions of your employment are in Annexure 1.

Designation	ML Engineer - Intern
Joining Date	01-September-2022
Notice Period	Not Applicable
Place of Employment	Bengaluru / Remote

It gives us great pleasure to bring you into our fold. We wish you great success!

Annexure 1

The detailed terms and conditions of your employment, wherever applicable, are as follows

1. Term and Scope of Employment

- Your designation and your responsibilities will include as defined by Cloudside
- Under the terms of this Agreement, and without the need to terminate the employment relationship or to enter into a new agreement, the Company is permitted to assign you additional tasks, to modify or remove your assigned duties, or to change the place of your employment without additional compensation.
- You will, in addition to the terms and conditions of employment specifically stated herein, also be governed by the rules, regulations and such other practices, systems, procedures and policies framed, amended, modified or omitted by the company from time to time
- You will also be governed by statutory laws enacted by Central or State Government or Local Authorities as may be applicable to you from time to time.

2. Place of Work

Your place of work will be as mentioned in the offer letter. You are liable to be transferred to another branch, shift, post of or place or to sister or associate or any other concern whether in existence or which may come into existence hereafter. Your terms and conditions of employment will continue to be what is stipulated in this document in case of transfer. You will be responsible for making arrangements for your accommodation/other arrangements, if any.

3. Probation

You will be in probationary status for a period of 3 months from the date of your joining. At the discretion of the management, your probationary period may either be extended or shortened. Your services are liable to be terminated with a notice period of 15 days or equivalent pay during the probation.

4. Background Check:

The Company may conduct reference, employment and criminal record verification independently or through a third-party vendor and the company reserves the right to

terminate your employment if any information submitted by you is found to be incorrect and/or if an unfavourable record is found. Your acceptance of this offer letter indicates your approval of Cloudside initiating such verification.

5. Compensation

Subject to the following provisions of this Agreement, during the Employment Period, the Employee shall be compensated for his services as follows:

- The Employee shall receive an annual salary, payable in monthly or more frequent instalments, as per the convenience of the Employer, subject to increases annually or time to time, as determined by the Employer. Such payments shall be subject to such normal statutory deductions by the Employer.
- During the term of this Agreement, the Employee's salary shall be paid by means of bank transfer, cheque, or any other method convenient to the Employer, and consented to by the Employee.
- All reasonable expenses arising out of employment shall be reimbursed assuming that the same have been authorized prior to being incurred and with the provision of appropriate receipts.

6. Retirals & Benefits

The below are additional non-monetary benefits not included as a part of the compensation structure above. The terms of such insurance may change from time to time

- Insurance - Group Medclaim: As per yearly company policy
- Insurance - Personal Accident Policy: As per yearly company policy
- Provident fund: As per the provision of "The Employee Provident Fund and Miscellaneous Act 1952".
- Gratuity: As per the provisions of the Gratuity Act 1972.

7. Leave Policy

- The Employee is entitled to 14 days of paid casual leaves in a year and 6 days of sick leave. In addition, the Employee will be entitled to 12 public holidays mentioned under the Leave Policy of the Employer.
- **Unauthorised absences from work** If you absent yourself without prior permission and/or prior sanction of leave or overstays beyond the period of leave originally granted or subsequently extended for 10 or more working days, you will be deemed to have voluntarily abandoned service. In such an event, you will be considered as no

longer interested in the employment and have resigned from the services of the company of your own accord. In such an event you shall be liable to refund the salary in lieu of shortfall in notice period and other dues payable to the company, as specified

8. Confidentiality

You must always maintain the highest degree of secrecy and keep as confidential the strategy, names of clients, fellow employees, business lines, equipment, products, intellectual property, records, documents and such other information relating to the business of the Company which may be known to you or confided in you by any means and you will use such strategy, names of clients, fellow employees, business line, equipment, products, intellectual property, records, documents and information only in a duly authorised manner in the interest of the Company. You shall act in due diligence not to divulge any client information or professional secrets of the company. Infringement of this condition will render you liable to summary dismissal and/or prosecution.

9. Obligations of the Employee


- Upon execution of the agreement, the Employee shall not engage in any sort of theft, fraud, misrepresentation or any other illegal act neither in the employment space nor outside the premise of employment. If he/she shall do so, the Company shall not be liable for such an act done at his own risk.
- The Employee shall always ensure that his/her conduct is in accordance with all the rules, regulations and policies of the Company as notified from time to time.
- The Employee shall not take up part-time or full-time employment or consultation with any other party or be involved in any other business during the term of his/her employment with the Company.
- You agree that, during the period of employment under this Agreement, you will diligently devote all of your professional skills, time, energies and best efforts to the performance of your duties on behalf of the Company.
- The Employee shall always ensure that his/her conduct is in accordance with all the rules, regulations and policies of the Company as notified from time to time, including but not limited to Leave Policy and Sexual Harassment Policy.
- The Employer hereby prohibits the Employee from engaging in any sexual harassment and the Employee promises to refrain from any form of sexual harassment during the course of employment in and around the premise of employment. If the Employee violates this term in the agreement, he shall be fully responsible for his/her actions and the Employer shall not be held responsible for any illegal acts committed at the discretion of the Employee.

Private & Confidential

- You shall be responsible for the safekeeping and returning in good order of all the properties such as mobile phone, laptop, desktop, simcard, identity card, etc., which may be in your possession, custody, care or charge. The management shall have the right to deduct the monetary value of such things from your salary/dues and take such other action as it deems fit in the event of your failure to account for such properties whether during the course of service or otherwise.

10. Termination:

After confirmation, your appointment is terminable either by management or by yourself by giving corresponding notice period applicable as mentioned above or pay in lieu thereof. In case you are incapacitated by reasons of illness, accident or any other cause and cannot perform your duties, the Company may at its option grant leave for a reasonable time on full pay or half pay or without pay or terminate your services.

Cloudside Technologies Private Limited	
 Ram Devaraj CEO 9043697897 people@thecloudside.com	Kiruthika S 9500861449 kiruthikas2020ai@gmail.com
Date/Place: 30/08/2022, Bangalore	Date/Place:



Nithyasri A <nithyasria.ai@mkce.ac.in>

Fwd: Offer Letter | Cloudside | Kiruthika S

KIRUTHIKA S <kiruthikas2020ai@gmail.com>
To: "Ms.Nithyasri A" <nithyasria.ai@mkce.ac.in>, hodai@mkce.ac.in

Tue, Aug 30, 2022 at 4:24 PM

----- Forwarded message -----

From: **shilpi Vani** <shilpivanibojan@gmail.com>
Date: Tue, Aug 30, 2022 at 4:23 PM
Subject: Offer Letter | Cloudside | Kiruthika S
To: <kiruthikas2020ai@gmail.com>

Hello, Kiruthika S

We are pleased to offer you the role of ML Engineer-Intern at Cloudside Technologies. Congratulations and welcome to Cloudside! :)

Please go through the attached offer letter and communicate your formal acceptance by responding to this email within 5 days of receipt of this email. The offer letter contains the salary breakdown and terms of employment. If you have any questions related to the compensation structure or any queries, please reach out to people@thecloudside.com

We look forward to onboarding you to the team and we wish you learning, earning, and happiness at Cloudside! :)

Thanks & Regards,
People Team
Cloudside Tech

2 attachments

 **Cloudside _ Offer Letter _ Kiruthika S (1).pdf**
90K

 **Joining Documents _ Checklist.pdf**
40K



MISTRAL
SOLUTIONS PRIVATE LIMITED

August 11, 2022

To Whomsoever It May Concern

This is to certify that **Mr. Aswin Kumaran M** (Emp No: 90593) was employed as **Intern-Software Design** at **Mistral Solutions Pvt. Ltd.** from **July 04th, 2022** to **August 06th, 2022**.

During his tenure with us, we have found his work to be good.

We wish his all the best in his future endeavors.

For **MISTRAL SOLUTIONS Pvt. Ltd,**



Mitrapal R B
Manager - Human Resources

Registered Office: # 60, "Adarsh Regent", 100 Feet Ring Road, Domlur Extension, Bangalore - 560 071 INDIA.
Tel: +91 80 4562 1100 Fax: +91 80 2535 6444 E-mail: info@mistralsolutions.com

CIN: U72200KA1999PTC025232

www.mistralsolutions.com



MISTRAL
SOLUTIONS PRIVATE LIMITED

June 30, 2022

Mr. Aswin Kumaran M
Bangalore, Karnataka

Dear Aswin Kumaran M,

Welcome to the Mistral family!!!!

We are very happy to inform you that you have been selected to pursue your academic Internship, on a Full-Time basis as **Intern - Software Design** for a period of 1 Month, commencing from 6th July 2022 to 6th August 2022. You will be reporting to Pramod

We expect you to keep your work strictly confidential and not divulge or disclose to any outsider or ex-employee, either during your employment or after, any information related to the company, its employees or associates, which have come aware of during your internship with us. We expect that you will not act in any manner, which may tend to be prejudicial or determined to the reputation of the company and its associates.

You will be required to sign a Non-Disclosure Agreement with us

You will be eligible for 1-day leave per completed month of internship. Accumulated leave cannot be en-cashed

On joining us, you will have to submit a photocopy of your identity proof and all the necessary Documents as requested by Mistral

Mistral Solutions Pvt. Ltd. may terminate this agreement if found necessary with 1 day of notice with or without any cause. You may terminate your employment for any reason with 15 days of notice.

You will be certified on successful accomplishment of Internship. This Internship is purely study oriented hence there will be no stipend entitlement.

Yours Sincerely,
For Mistral Solutions Pvt. Ltd



Mitrapal R B
Manager - Human Resources

I have read the terms and conditions and accept the same. I would be joining on 04/07/2022



Signature

Registered Office: # 60 'Adarsh Regent' 100 Feet Ring Road, Domlur Extension, Bangalore - 560 071 INDIA
Tel: +91 80 4562 1100 Fax: +91 80 2535 6444 E-mail: info@mistralsolutions.com

VEI

TECHNOLOGIES PVT LIMITED
We Design For Future Technologies
CORPORATE61515598827ee1632720280

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. / Ms.

SUHAS . N

From **M.KUMARASAMY COLLEGE OF ENGINEERING**
in recognition of his efforts in completing
the 30 days industry internship on "ARTIFICIAL INTELLIGENCE"
from 22.02.2023 to 23.03.2023 .We appreciate his dedication for
completing all the tasks assigned during the period of the internship.


Dr.B.EZHILAVAN,
VEI Technologies Pvt.Ltd.

VEI

TECHNOLOGIES PVT LIMITED
We Design For Future Technologies
CORPORATE61515598827ee1632720280

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. / ~~Ms.~~

SURYA MOORTHY . U

From **M.KUMARASAMY COLLEGE OF ENGINEERING**
in recognition of his efforts in completing
the 30 days industry internship on "ARTIFICIAL INTELLIGENCE"
from 22.02.2023 to 23.03.2023 .We appreciate his dedication for
completing all the tasks assigned during the period of the internship.


Dr.B.EZHILAVAN,
VEI Technologies Pvt.Ltd.

VEI

TECHNOLOGIES PVT LIMITED
We Design For Future Technologies
CORPORATE61515598827ee1632720280

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. /~~Ms.~~

VIKRAMA PANDIAN . U

From **M.KUMARASAMY COLLEGE OF ENGINEERING**
in recognition of his efforts in completing
the 30 days industry internship on "ARTIFICIAL INTELLIGENCE"
from 22.02.2023 to 23.03.2023 .We appreciate his dedication for
completing all the tasks assigned during the period of the internship.


Dr.B.EZHILAVAN,
VEI Technologies Pvt.Ltd.



Virtual Internship Completion Certificate

This is to certify that

ANUSUYA V

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By 
University

ATTESTED


PRINCIPAL

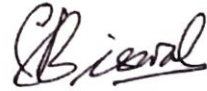
M. Kumarasamy College of Engineering
Thalavanalavam Karu, Kanyakumari



Ana Howes
Global Head of Education Services
Blue Prism



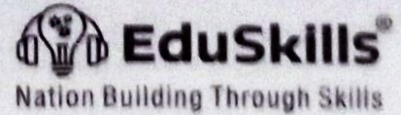
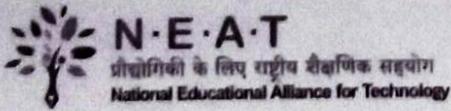
Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE



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



Certificate ID :f7f41d86292bab4fc47756a6da8bfcde
Student ID :STU614f3bfc5b49b1632582652



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

BARATHKUMAR J K

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

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

ATTESIED

PRINCIPAL
M. Kumarasamy College of Engineering,
Chalavanallavam Karu - 630112

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



Certificate ID :65818a3ef5d3796fc4bb764478d76518

Student ID :STU614f33e78d09d1632580583



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



अखिल भारतीय तकनीकी शिक्षा परिषद
All India Council for Technical Education



EduSkills®
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

BARATHKUMAR J K

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during December 2022 - February 2023

Supported By **aws** academy

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering
Palanganthi, Karaikal

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

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



Certificate ID :7a462b9558310f802c5d81910068b9c8
Student ID :STU614f33e78d09d1632580583



N·E·A·T

नेशनल एजुकेशनल अलियंस फॉर टेक्नोलॉजी
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

BHARADWAJ S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering,
Kulasekaram, Karaikal

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



Certificate ID :db06963f1914b4d88f03e78c80635d60

Student ID :STU614ca45f4ba4a1632412767



Virtual Internship Completion Certificate

This is to certify that

CHANDEESHARAN B

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022


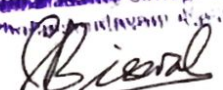
Supported By **blueprism**
University



Ana Howes
Global Head of Education Services
Blue Prism

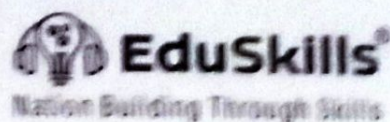
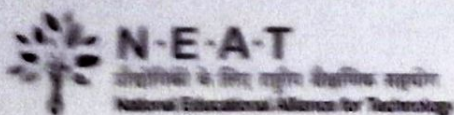


Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

ATTESTED

PRINCIPAL
M. Kumarasamy College of Engineering

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



Certificate ID :23c757e5355e90e60d31fbb6732a109b
Student ID :STU614ec9fda6bbf1632553469



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

CHANDEESHARAN B

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during December 2022 - February 2023

Supported By  academy

ATTESIED

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

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

PRINCIPAL
M. Kumarasamy College of Engineering
Kallarassalaram, Karaikal - 751114



Certificate ID :0cd5654c343a9c4f4441cb7b081470db

Student ID :STU614ec9fda6bbf1632553469



एल।ए।सी।टी. ई।टी।ई।टी.
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

DEEPAK D

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

ATTESTED

PRINCIPAL

**M. Kumarasamy College of Engineering,
Chalvayapalayam, Karaikal - 751012**

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



Certificate ID :aa0786f0379ed1291b1b3b2d1a28936e

Student ID :STU61bb3cae24c7b1639660718



N·E·A·T

टीएनटीके के लिए राष्ट्रीय वैश्विक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

DEEPAKK V V

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

Ana Howes
Global Head of Education Services
Blue Prism

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

ATTESTED

PRINCIPAL,
M. Kumarasamy College of Engineering,
K. J. Somaiya Institute of Management Studies & Research

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



Certificate ID :c888caaab2c990917a079fbdff295b22

Student ID :STU614eedf1d96431632562673



N-E-A-T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



असिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

DEEPIKA K

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Process Mining Virtual Internship

during July - Sep 2022

Supported By

celonis

ATTBSTD

PRINCIPAL

M. Kumarasamy College of Engineering
Kudalore, Karnataka

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

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

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



Certificate ID :b0c050b13f0a43864e2472b74a099f3c

Student ID :STU614ca5b39fbb21632413107



N·E·A·T
 नैद्योगिकी के लिए राष्ट्रीय वैश्वनिक संघर्ष
 National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
 All India Council for Technical Education



EduSkills®
 Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

DIVESH IYYAPAN S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

ATTESTED

Ana Howes
 Global Head of Education Services
 Blue Prism

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

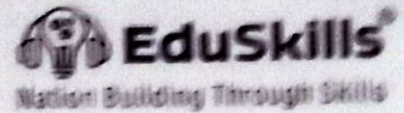
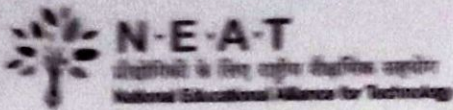
PRINCIPAL
 M. Kumarasamy College of Engineering
 Thalavannalayan Karu - 601117

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



Certificate ID :f498b1da59e12b9693870bc7493b8f27

Student ID :STU614b22a8333791632314024



एनईएटी के लिए राष्ट्रीय गैर-प्रतिस्पर्धी
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

GOKUL D

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering,
Thalavayalpuram, Karaikal - 751117

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

Ana Howes
Global Head of Education Services
Blue Prism

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



Certificate ID :6ea33a5f1168e2745e9071db09154aa9
Student ID :STU614ec84850ef51632553032



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

GOWTHAM M M

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

Ana Howes
Global Head of Education Services
Blue Prism

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

ATTESTED

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



Certificate ID :9ecb4e4d2409ce2d1a4b39b21106f398

Student ID :STU61500c3c616241632635964



N·E·A·T

औद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

HARIHARAN M

Annasaheb Dange College of Engineering and Technology


has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



ATTSTED

PRINCIPAL:
Kumarasamy College of Engineering,
Chalavanalavam, Karaikal 629111

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



Certificate ID :8c5a15f9ec9115245d87ae722620cb68

Student ID :STU61bb37f1abb301639659505



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



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills[®]
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

HARIHARAN M

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during December 2022 - February 2023

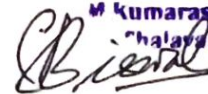
Supported By **aws** academy

ATTESTED

PRINCIPAL



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



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



Certificate ID :83d664210a31fd47820f90801fd183e8
Student ID :STU61bb37f1abb301639659505



N·E·A·T

तेजस्विनी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



असिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

JAGATHRATCHAKAN S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during December 2022 - February 2023

Supported By **aws** academy

ATTESTED

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

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

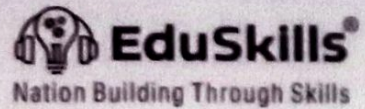
PRINCIPAL

M. Kumarasamy College of Engineering
Kulavanalavam Karu - 630117



Certificate ID :e68c20f13dc3c010e61dcd26c3e99799

Student ID :STU614eec339dfc71632562227



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

JANA M G

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

Ana Howes
Global Head of Education Services
Blue Prism

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

ATTESTED

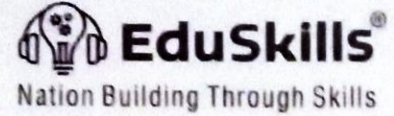
PRINCIPAL
M Kumarasamy College of Engineering
Chennai, Tamil Nadu, India

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



Certificate ID :38b1ac1cffdacc9854a942c0c7769d5f

Student ID :STU614ef34bc94091632564043



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

JEEVITHA K

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



ATTESIED

[Signature]
PRINCIPAL:
M.Kumarasamy College of Engineering,
Chalavanalavam Karu 630113

[Signature]

Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

[Signature]

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

[Signature]

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



Certificate ID :719fc0bbbc028512a4e3d68212d9d7ce
Student ID :STU614ec9a220ca71632553378



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

KEERTHIGA S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

ATTESIED

Ana Howes

Global Head of Education Services
Blue Prism

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

PRINCIPAL:

M. Kumarasamy College of Engineering
Thalavanalavam, Karur - 620112

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



Certificate ID :6510d8bdfe738f7aa68c27fa5796541c

Student ID :STU614f061f118aad1632568863



N·E·A·T

तेजसगिरी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills[®]
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

MAHALAKSHMEE B

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



ATTSTED

PRINCIPAL

M. Kumarasamy College of Engineering,
Thalavanalavam, Karur - 639112

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



Certificate ID : 7b3cf7ee5332ee29b0b25d8ca558d85c

Student ID : STU614df3009ae851632498432



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

Mahalakshmee B

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during December 2022 - February 2023

Supported By **aws** academy

ATTENDED

PRINCIPAL

M.Kumarasamy College of Engineering
Chalavayalavam, Karur - 626111

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

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



Certificate ID : 776254300be478066f23d0a4ce574887

Student ID : STU614df3009ae851632498432



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय वैश्वनिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

MOHAMED MUZAMMIL A

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism®
University**

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering
Chalavapalavam Karur - 629112

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



Certificate ID :ea9bc81c50f356b6a5954625211c811f

Student ID :STU614eec6c1371d1632562284



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

MOSHITH K S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University **ATTBSTD**

Ana Howes

Global Head of Education Services
Blue Prism

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

PRINCIPAL
M. Kumarasamy College of Engineering
Thalassery

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



Certificate ID :3a0ff47c83a426a506c81c9f5792d748

Student ID :STU614eed8c660601632562572



N·E·A·T

टीएनएटीके के लिए राष्ट्रीय वैश्वनिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

MUTHU R

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

Ana Howes
Global Head of Education Services
Blue Prism

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

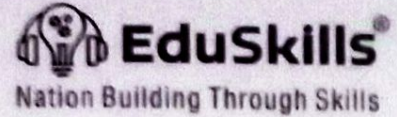
ATTESTED

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



Certificate ID :174b8b74a7482e762cbd1e8c7bad4295

Student ID :STU614ef24db48a81632563789



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

NAVEEN M

M.Kumarasamy College of Engineering (Autonomous)


has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

ATTESIED


PRINCIPAL,
M. Kumarasamy College of Engineering,
Chalavanalavam Karu, 620112

Ana Howes
Global Head of Education Services
Blue Prism

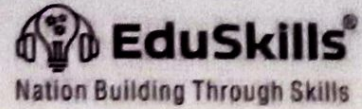
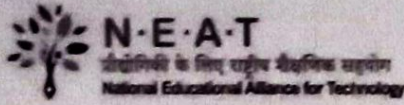
Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

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



Certificate ID :e385b3c43f4c3c944822003db6cc2fa1

Student ID :STU614eed86b5ad51632562566



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

PRADEKSHA RK

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

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

ATTESTED

M. Kumarasamy
Principal,
M.Kumarasamy College of Engineering
Thalavapataram Karu - 620112

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



Certificate ID :d5a4d4bf824864f33666658bd6448293

Student ID :STU614eddd5926d71632558549



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

PRADEKSHA R K

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during December 2022 - February 2023

Supported By **aws** academy

ATTESTED

PRINCIPAL

M. Kumarasamy, College of Engineering
Thalavayalankulam, Karaikal - 605011

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

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



Certificate ID :1a1a1c7181d22f96f2428bd9ea62cdf1

Student ID :STU614eddd5926d71632558549



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

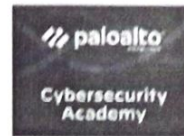
This is to certify that

SAIKARTHICK M

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks
Cybersecurity Virtual Internship
during July - Sep 2022

Supported By



Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

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

ATTESTED

PRINCIPAL
M. Kumarasamy College of Engineering,
Palavupatti, Tamil Nadu - 620112

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



Certificate ID : a61154d98306f789000f0691292f5c11
Student ID : STU614ec88d577701632553101



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद
All India Council for Technical Education



EduSkills®
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

SAIKARTHICK M

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during December 2022 - February 2023

Supported By **aws** academy

ATTESTED

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

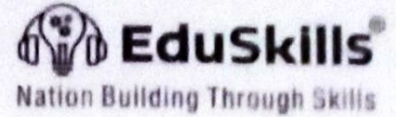
PRINCIPAL,
M.Kumarasamy College of Engineering,
"halaypalavam Karu - 620111"

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



Certificate ID : 7142ab151415fc5cfefb824cbc5aa3e5

Student ID : STU614ec88d577701632553101



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

SUHAS N

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

ATTENDED

PRINCIPAL

M. Kumarasamy College of Engineering
Thalavannalavom, Karaikal - 751117

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



Certificate ID : b45abbac54073a498f0b210ed5292d99

Student ID : STU614ec612cac3c1632552466



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



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

SURYA MOORTHY U

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

Ana Howes
Global Head of Education Services
Blue Prism

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

ATTESIED

PRINCIPAL
M. Kumarasamy College of Engineering
Chalavanalavam Karu - 630117

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



Certificate ID :53fcd4dce9f888b827d9e69378f67dca

Student ID :STU62162361cd67a1645618017



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

SWETHA K

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



Saravanan Rajagopal

Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

Shri Buddha Chandrasekhar

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

ATTESTED
Dr. Satya Ranjan Biswal
PRINCIPAL
M. KUMARASAMY College of Engineering
Chennai, Tamil Nadu, India - 201211

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

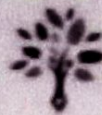


Certificate ID :7baec1a17e5a34dcd1aada7fac69a93c

Student ID :STU614ca46474f711632412772



सर्वोच्च भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



N·E·A·T
एन.ई.ए.टी. के लिए राष्ट्रीय शैक्षणिक गठबंधन
National Educational Alliance for Technology



EduSkills
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

VIKRAMA PANDIAN U

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Process Mining Virtual Internship

during Mar - May 2022

Supported By **celonis**

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

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

ATTESTED

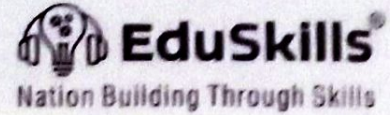
PRINCIPAL
M. Kumarasamy College of Engineering
Karasalapuram, Namakkal - 641 113

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



Certificate ID :bfbe9f531c6df42a62b646788dbd2c4a

Student ID :STU614eed97524931632562583



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

VIKRAMA PANDIAN U

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Robotic Process Automation (RPA) Virtual Internship

during July - Sep 2022

Supported By **blueprism**
University

Ana Howes
Global Head of Education Services
Blue Prism

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

ATTESTED

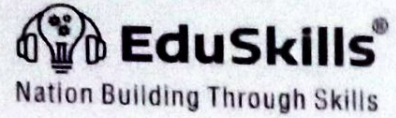
PRINCIPAL,
M. Kumarasamy College of Engineering
Thalavayalavam Karu - 639159

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



Certificate ID :d418b9ecc772ed71d8ca9e3d0d3ebdb7

Student ID :STU614eed97524931632562583



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

VISHUVA V S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during December 2022 - February 2023

Supported By  academy

ATTENDED

PRINCIPAL

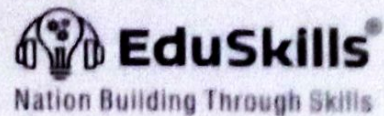
M. Kumarasamy College of Engineering,
Changanallur, Karaikal

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

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



Certificate ID :983271f40b0446b4c0960975aa848b95
Student ID :STU614ec602ab7bc1632552450



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

AKILAN B

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Process Mining Virtual Internship

during July - Sep 2022

Supported By **celonis**

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

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

ATTESIED

PRINCIPAL
M. Kumarasamy College of Engineering
Palavanpalavam, Karur - 620117

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



Certificate ID :8d7a05c0fd442c5b802f48eb0697a367

Student ID :STU61bb2d41c31df1639656769



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

KARTHIKEYAN L

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022.

Supported By



Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

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

ATTESTED

PRINCIPAL,
M. Kumarasamy College of Engineering,
Chidambaram, Tamil Nadu - 605002

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



Certificate ID :010dea038edc3b596c478ad60ce16794

Student ID :STU614ecc5a7bc4f1632554074



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

HEMANTH B

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Process Mining Virtual Internship

during July - Sep 2022

Supported By

celonis

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

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

ATTES TED

PRINCIPAL:
Kumarasamy College of Engineering
Thalavayalavam Karur - 629111

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



Certificate ID :9863d7b7fdbe9c955422d5beb3862b38

Student ID :STU61b86cfcdfa571639476476



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

THAMIZHARASAN P

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Data Analytic Process Automation

during July - Sep 2022

Supported By **alteryx**
SPARKED



ATTESIED

PRINCIPAL

M. Kumarasamy College of Engineering
Chalavanalavam, Karaikal - 751011

Olivia Duane-Adams
Chief Advocacy Officer (CAO)
Alteryx

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

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



Certificate ID : e1096b63a3b194bc4af09bf246002692

Student ID : STU61b86896cbf6e1639475350



N·E·A·T

नेपालीको के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

ABISHAK D

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AI-ML Virtual Internship

during July - Sep 2022

Supported By **aws** academy

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering,
Palavanalavam Karu - 620117

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

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



Certificate ID :c709b24a176df4e1ed8965b2cfdb73a6

Student ID :STU61b8695e433871639475550



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

DEVAPRASADH

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

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

ATTESTED

PRINCIPAL:
M. Kumarasamy College of Engineering,
Palavanpalavam Karu 620117

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



Certificate ID :31af1d10412366d0c084cc606f085831

Student ID :STU61b86ae16c1e01639475937



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

DHINAGARAN VP

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during July - Sep 2022

Supported By **aws** academy

ATTESTED

PRINCIPAL

M. Kumarasamy College of Engineering
Muthupalayam, Karur - 625417

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

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



Certificate ID :2bc0cb356dc2325629932b8b6351d2f8

Student ID :STU61b86d9cd73371639476636



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



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

DINESH S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Process Mining Virtual Internship

during July - Sep 2022

Supported By **celonis**

ATTENDED

PRINCIPAL

M. Kumarasamy College of Engineering,
Palayamkottai, Karaikal - 751 012

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

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

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



Certificate ID : b93e791c421b691c5c1fd46463ed2ebf

Student ID : STU62bd53daea9101656574938



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

KANIYAMUDHAN Y

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Process Mining Virtual Internship

during July - Sep 2022

Supported By

celonis

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

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

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



Certificate ID :a0285bf5136ca0570efe2a2538972cb8

Student ID :STU61b868b60a1a71639475382



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

KAVIN K V

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during July - Sep 2022

Supported By **aws** academy **ATTESIED**

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

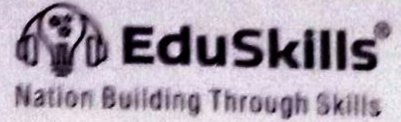
PRINCIPAL
M. Kumarasamy College of Engineering,
Kudamkulam Karu - 620117

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



Certificate ID :62788abf709679698472b759ad564930

Student ID :STU62bd540c149231656574988



सर्वोच्च भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

MADHUMITHRA M

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks
Process Mining Virtual Internship
during July - Sep 2022

Supported By **celonis**

ATTENDED
[Signature]
PRINCIPAL

M. Subramaniam
M. Subramaniam College of Engineering
Autonomous, Karaikal - 751017

[Signature]

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

[Signature]

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

[Signature]

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



Certificate ID :edad7ea830864ffc2f89eaf990e5e3ae
Student ID :STU62bd7d929aa981656585618



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

PRASANNA R

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Process Mining Virtual Internship

during July - Sep 2022

Supported By **celonis**

ATTESTED

PRINCIPAL:

M. Kumarasamy College of Engineering
Palavanalavam Karu - 620117

Jerome Geyer-Klingeberg
Head of Academic Alliance
Celonis

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

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



Certificate ID : 154e7dc443923cfe2f6adb2c905f24ac

Student ID : STU61b8690cdb8781639475468



N·E·A·T

एन.ई.ए.टी. के लिए राष्ट्रीय वैश्वीकरण सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

PRAVEEN

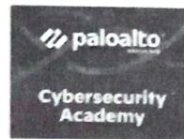
M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

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

ATTESTED

PRINCIPAL
M. Kumarasamy College of Engineering
Chalvanthalam, Karaikal

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



Certificate ID :6b161ce9536806aae166f12ade76db75

Student ID :STU62bd51ac7f5e41656574380



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



अखिल भारतीय तकनीकी शिक्षा परिषद्
 All India Council for Technical Education



EduSkills[®]
 Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

SANJAY S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



Saravanan Rajagopal

Saravanan Rajagopal
 Training Partner Manager, APAC
 Palo Alto Networks

Shri Buddha Chandrasekhar

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

ATTESTED
[Signature]
 PRINCIPAL

M. Kumarasamy College of Engineering,
 Thiruvannamalai, Tamil Nadu - 606 011

Dr. Satya Ranjan Biswal

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



Certificate ID :2c04a1adf0b65427c1e706327eae98f5

Student ID :STU61b86eb83ca3a1639476920



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

SHARAN ADHITHYA S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

AWS Cloud Virtual Internship

during July - Sep 2022

Supported By **aws** academy



ATTBSED

PRINCIPAL

M.Kumarasamy College of Engineering,
Thalavayalavan, Karaikal - 741111

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

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



Certificate ID :b55324ea9cbe85dface8a5019b524e8a

Student ID :STU62bd551217a231656575250



N·E·A·T

नेशनल एजुकेशनल अलियंस फॉर टेक्नोलॉजी
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®

Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

SOWNDHAR S

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



ATTBSTD

PRINCIPAL

M. Kumarasamy College of Engineering
Thalavayalvam, Salem - 636 011

Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

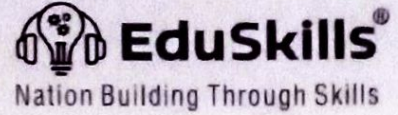
Shri Buddha Chandrasekhar
Chief Coordinating Officer (CCO)
NEAT Cell, AICTE

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



Certificate ID :2ad4e261d9d60075ce7ede9f48204fc9

Student ID :STU62bd505a645e11656574042



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



Virtual Internship Completion Certificate

This is to certify that

VIMAL MATHEW B

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

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

ATTBSTD

M. Kumarasamy
Principal,
M. Kumarasamy College of Engineering
Kattavayal, Karaikal - 629112

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



Certificate ID : cf985cd1ca9ae0e7a3633527b3c53328

Student ID : STU61b86d9b3ce801639476635



N·E·A·T

प्रौद्योगिकी के लिए राष्ट्रीय शैक्षणिक सहयोग
National Educational Alliance for Technology



अखिल भारतीय तकनीकी शिक्षा परिषद्
All India Council for Technical Education



EduSkills®
Nation Building Through Skills



Virtual Internship Completion Certificate

This is to certify that

VISHAL R

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By



Saravanan Rajagopal
Training Partner Manager, APAC
Palo Alto Networks

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

ATTENDED

PRINCIPAL
M. Kumarasamy College of Engineering
Kallakurichi, Tamil Nadu - 605 011

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



Certificate ID :4919d996196f3aa00c582bf187d3ccd0
Student ID :STU62bd29b0cf95d1656564144



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 Artificial Intelligence and Data Science.

Minor Projects Proof



A Minor Project Report

On

DACTYLOSCOPIC TRANSACTION

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. Jeya Ganesh Kumar

Assistant Professor/Department of AI

Submitted by

NAVANEETHA KRISHNAN P S (927621BAD034)

SATHEESHKUMAR K (927621BAD045)

PRAVEEN T (927621BAD040)

HAREESH KUMAR A (927621BAD301)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)


BONAFIDE CERTIFICATE

Certified that this project report “**DACTYLOSCOPIC TRANSACTION**” is the Bonafide work of “**NAVANEETHA KRISHNAN P S(927621BAD034), SATHEESHKUMAR K (927621BAD045), PRAVEEN T(927621BAD040), HAREESH KUMAR A(927621BAD301)**” who carried out the minor project work during the academic year 2022-2023 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

Mr.K.Jeya Ganesh Kumar
Assistant Professor,
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.



Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

This paper explores the integration of biometric authentication in digital transactions for improved security, privacy, and user experience. Various biometric modalities, including fingerprint, facial, iris, and voice recognition, are assessed for their effectiveness and challenges. The implementation considerations, such as algorithm development, secure storage, and interoperability, are discussed. Privacy concerns and ethical considerations related to biometric data collection are addressed, along with regulatory frameworks and industry standards. The potential of multi-modal biometric systems to enhance security is examined. Despite the benefits, challenges like technical issues, ethics, and regulations need attention for successful large-scale deployment.

CONCLUSION

Fingerprint-based transactions represent a cutting-edge and secure advancement in the realm of financial technology. Leveraging the unique and virtually unreplaceable characteristics of an individual's fingerprint, this method ensures a robust authentication process for financial transactions. By linking a user's biometric data to their financial accounts, the system not only enhances security but also streamlines the transactional experience, eliminating the need for traditional authentication methods like passwords or PINs. The integration of fingerprint technology adds an extra layer of confidence for users and financial institutions alike, fostering a more seamless and trustworthy digital financial ecosystem. As the world continues to embrace biometric authentication, fingerprint-based transactions stand out as a sophisticated and efficient solution, paving the way for a future where financial interactions are not only secure but also more convenient for individuals across the globe.



A Minor Project Report

On

SMART AGRICULTURE - AGRO

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms. A. Nithyasri

Assistant Professor/Department of AI

Submitted by

AARTHI B (927621BAD002)

HARSHINI (927621BAD016)

VISHNU PRIYA C (927621BAD062)

VINOHARSITHA A S (927621BAD060)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

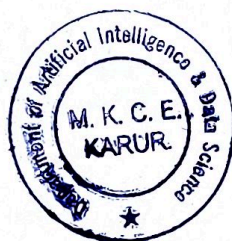
NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "SMART AGRICULTURE - AGRO" is the Bonafide work of "AARATHI B(927621BAD002), HARSHINI M(927621BAD016), VISHNU PRIYA C(927621BAD062), VINOHARSITHA A S(927621BAD060)" who carried out the minor project work during the academic year 2022-2023 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




Signature

Ms.A. Nithyasri
Assistant Professor,
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Smart agriculture, also known as precision agriculture, leverages the Internet of Things (IoT) to enhance farming efficiency and productivity. In this approach, various IoT devices such as sensors, drones, and automated machinery are employed to collect and analyze real-time data from the agricultural environment. The system allows farmers to monitor key parameters like soil moisture, temperature, and crop health remotely. Through this data, farmers can make informed decisions on irrigation, fertilization, and pest control, optimizing resource usage and reducing environmental impact. By integrating IoT technologies, smart agriculture enhances the overall management of crops, livestock, and resources. This results in improved yields, reduced costs, and sustainable farming practices, contributing to a more efficient and eco-friendlier agricultural ecosystem.

CONCLUSION

Smart agriculture with IoT enhances crop management, resource efficiency, and yield optimization through real-time data. The integration of sensors, drones, and automated systems facilitates precision farming, minimizing environmental impact. Improved decision-making based on data analytics leads to increased productivity and sustainability. IoT in agriculture empowers farmers with actionable insights, fostering a more resilient and technologically advanced industry. Ultimately, it holds the potential to revolutionize global agriculture practices for a more efficient and sustainable future.



A Minor Project Report

On

NEWS SCRAPING USING DATA MINING

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.S.Lavanya

Assistant Professor/Department of AI

Submitted by

NIKITHA Y S	(927621BAD035)
SUBAA R	(927621BAD052)
LIBERNA ASUWATHA A	(927621BAD027)
SUPRIYA G	(927621BAD055)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

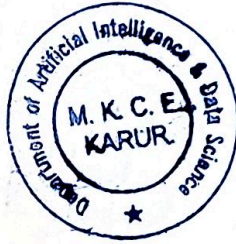
NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “NEWS SCRAPING USING DATA MINING” is the Bonafide work of “LIBERNA ASUWATHA A(927621BAD027), NIKITHA Y S (927621BAD035), SUBAA R(927621BAD052), SUPRIYA G(927621BAD055)” who carried out the minor project work during the academic year 2022-2023 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




Signature

Mrs.S. Lavanya
Assistant Professor,
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

As the volume of online news content continues to grow, the need for centralized platforms providing a comprehensive overview of diverse sources becomes increasingly apparent. This abstract focuses on the concept of aggregating news from various websites into a single platform using web scraping techniques.

The first section emphasizes the motivation behind creating a centralized news aggregator, highlighting the challenges individuals face in keeping up with multiple news sources and the desire for a unified, time-efficient solution. The abstract discusses how web scraping facilitates the extraction of news articles, headlines, and metadata from different websites, enabling the creation of a consolidated news platform.

The technical aspects of web scraping for news aggregation are explored in the second section, covering methodologies to efficiently extract and structure data from diverse web sources. Techniques such as HTML parsing, CSS selection, and automated navigation are discussed, with a focus on maintaining the timeliness and accuracy of the aggregated news content.

Challenges related to ethical considerations and legal compliance are addressed in the third section, emphasizing the importance of respecting copyright, terms of service, and privacy regulations when scraping content from various websites. The abstract also explores potential strategies for mitigating ethical concerns and fostering positive relationships with content providers.

The practical applications of a comprehensive news aggregation platform are discussed in the fourth section, highlighting the benefits for users seeking a centralized, streamlined experience. From improved accessibility to a wider range of perspectives to the facilitation of data-driven insights, the abstract outlines how such a platform can enhance the user experience in staying informed.

CONCLUSION

In conclusion, the news scraping project has provided valuable insights into Data Mining through the systematic extraction and analysis of news articles from various sources. The objectives of the project were successfully met, and several notable findings have emerged, contributing to a deeper understanding of Data Mining. Despite the success of the project, challenges were encountered, such as time complexity. These challenges underscore the importance of Mining concepts for future projects in similar domains. Efficient and sustainable future.



A Minor Project Report

On

BROWSER ASSISTANT

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.P. Vidhya

Assistant Professor/Department of AI

Submitted by

HEMANTH B (927621BAD034)

DHANUSH G (927621BAD045)

KANIYAMUDHAN Y (927621BAD040)

THAMIZHARASAN P (927621BAD301)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “BROWSER ASSISTANT” is the Bonafide work of “DHANUSH G(927621BAD008), H E M A N T H B (927621BAD017), KANIYAMUDHAN Y(927621BAD020), THAMIZHARASAN P(927621BAD057)” who carried out the minor project work during the academic year 2022-2023 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




Signature

Mrs.P. Vidhya
Assistant Professor,
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Browser Assistant which only works on their own browser. We are creating a Browser Assistant which can work in different browsers, like Chrome and Microsoft Edge. The Browser Assistant can perform a search in an engine using Speech Recognition, Text Recognition using a live camera, entering text manually and reading website content. By using the Browser Assistant, users can find the exact information they are looking for. It will help those in need of information. The Browser Abstract Assistant allows you to search using URLs

CONCLUSION

The development of a versatile Browser Assistant represents a significant enhancement in user experience compared to existing solutions that are restricted to specific browsers. The ability to operate seamlessly across popular browsers such as Chrome and Microsoft Edge expands accessibility and convenience for users. The incorporation of Speech Recognition, Text Recognition through live camera input, manual text input, and website content reading further diversifies the ways users can interact with the Browser Assistant, ensuring a comprehensive and user-friendly experience. The Browser Assistant emerges as a powerful tool for information retrieval, catering to users' diverse needs and preferences. Its capability to search using URLs adds an additional layer of flexibility, making it a valuable asset for individuals seeking precise and efficient information retrieval. Overall, the Browser Assistant stands out as an inclusive and feature-rich solution, poised to benefit a wide range of users in their quest for accurate and timely information.



A Minor Project Report

On

**SPEECH TO TEXT APP CUSTOMIZED FOR POLICE
FUNCTIONING IN DIFFERENT LANGUAGES**

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. P. Suresh

Assistant Professor/Department of AI

Submitted by

DHINAGARAN V P (927621BAD010)

DINESH S (927621BAD011)

KAVIN K V (927621BAD021)

SHARAN ADHITHYA S (927621BAD047)

ROHITH U (927621BAD302)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “**SPEECH TO TEXT APP CUSTOMIZED FOR POLICE FUNCTIONING IN DIFFERENT LANGUAGES**” is the Bonafide work of “**DHINAGARAN V P(927621BAD010), DINESH S(927621BAD011), KAVIN K V(927621BAD021), SHARAN ADHITHYA S(927621BAD047), ROHITH U(927621BAD302)**” who carried out the minor project work during the academic year 2022-2023 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



Signature

Mr. P. Suresh
Assistant Professor,
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Speech Recognition Systems now-a-days use many interdisciplinary technologies ranging from Pattern Recognition, Signal Processing, Natural Language Processing implementing to unified statistical framework. Such systems find a wide area of applications in areas like signal processing problems and many more. The objective of this paper is to present the concepts about Speech Recognition Systems starting from the evolution to the advancements that have now been adapted to the Speech Recognition Systems to make them more robust and accurate. This paper has the detailed study of the mechanism, the challenges and the tools to overcome those challenges with a concluding note that would ensure that with the advancements of the technologies, this world is surely going to experience revolutionary changes in the near future. Speech-to-text enables the real-time transcription of audio streams into text. It allows quick and accurate transcription from multiple audio sources to text. Nowadays interaction with computers and smart devices is tending towards the voice. Speech recognition allows documents to be created faster. Because the software generally produces words as quickly as they uttered, which is usually much faster than a person can type. Speech Recognition is a branch of a large scientific domain

CONCLUSION

The project aims to address the linguistic diversity within police departments, providing a versatile tool that can seamlessly transcribe spoken words into written text across various languages. Moreover, the implementation of robust security measures in the app is imperative to safeguard sensitive information, maintaining the confidentiality and integrity of police communications. Adherence to data protection standards and encryption protocols will be integral to building trust and ensuring the app's compliance with privacy regulations. In summary, the Speech-to-Text app tailored for police operations in different languages represents a valuable tool for modern law enforcement. It not only addresses language barriers but also enhances the overall efficiency, accuracy, and security of communication within police departments, contributing to more effective policing in diverse communities.



A Minor Project Report

On

CALL CENTRE ANALYTICS

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Dr.N.M. Saravana Kumar

HoD/Department of AI

Submitted by

ABISHAK D (927621BAD003)

LINGESH S (927621BAD028)

NAVANEETH S (927621BAD033)

SAI SETHU M L A (927621BAD042)

SARATHI R (927622LAD006)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

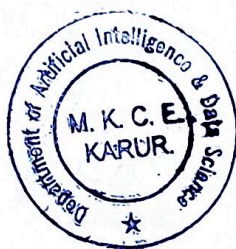
NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "CALL CENTRE ANALYTICS" is the Bonafide work of "ABISHAK D(927621BAD003), LINESH S(927621BAD028), NAVANEETH (927621BAD033), SAI SETHU M L A(927621BAD042), SARATHI R(927622LAD006)" who carried out the minor project work during the academic year 2022-2023 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.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.


Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

This abstract highlights the crucial role of call center analytics in optimizing operations, boosting customer satisfaction, and driving informed decision-making. Through the systematic analysis of various data points, including call volume, duration, resolution rates, and customer feedback, valuable insights are extracted to improve efficiency, agent performance, and overall customer experience. Key aspects like First Call Resolution, Quality Assurance monitoring, and Speech Analytics shed light on customer pain points and areas for improvement. Predictive analytics empowers proactive resource allocation, while self-service evaluation optimizes customer journeys. Cost analysis ensures financial efficiency, and compliance monitoring safeguards ethical practices. By leveraging these comprehensive insights, call centers can thrive in the competitive customer service landscape.

CONCLUSION

In conclusion, call center analytics emerges as a powerful engine propelling business towards customer service excellence and sustainable growth. By harnessing the wealth of data generated within their operations, organizations can uncover actionable insights that illuminate customer needs, streamline processes, and empower informed decision-making. The result? A call center transformed into a strategic asset, delivering exceptional customer experiences, optimizing agent performance, and driving business success in the ever-evolving landscape of customer service. Embrace the power of analytics, and unlock the full potential of your call center – the key to unlocking satisfied customers and a thriving business lies within its data-driven.



A Minor Project Report

On

NETWORK TRAFFIC ANALYZER

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.R. Stalin Babu

Assistant Professor/Department of AI

Submitted by

DEVA PRASADH B (927621BAD007)

MOHANAWARMA M (927621BAD032)

PRASANA R (927621BAD038)

VISHAL R (927621BAD061)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “NETWORK TRAFFIC ANALYZER” is the Bonafide work of “DEVA PRASADH B(927621BAD007), MOHANAWARMA M G(927621BAD032), PRASANA R(927621BAD038), VISHAL R(927621BAD061)” who carried out the minor project work during the academic year 2022-2023 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.

P. Stalin Babu
Signature



N.M. Saravana Kumar
Signature

Mr.R.Stalin Babu
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The rapid growth of Internet Traffic has emerged as a major issue due to the rapid development of various network applications and Internet services. One of the challenges facing Internet Service Providers (ISPs) is to optimize the performance of their networks in the face of continuously increasing amounts of IP traffic while guaranteeing some specific Quality of Services (QoS). Therefore, it is necessary for ISPs to study the traffic patterns and user behaviors in different localities, to estimate the application usage trends, and thereby to come up with solutions that can effectively, efficiently, and economically support their users' traffic. The main objective of this thesis is to analyze and characterize traffic in a local multi-service residential IP network in Sweden (referred to in this report as "Network North"). The data about the amount of traffic was measured using a real-time traffic-monitoring tool from Packet Logic. Traffic from the monitored network to various destinations was captured and classified into 5 ring-wise locality levels in accordance with the traffic's geographic destinations: traffic within Network North and traffic to the remainder of the North of Sweden, Sweden, Europe, and World. Parameters such as traffic patterns (e.g., traffic volume distribution, application usage, and application popularity) and user behavior (e.g., usage habits, user interests.) at different geographic localities were studied in this project. As a result of a systematic and in-depth measurement and the fact that the number of content servers at the World, Europe, and Sweden levels are quite large, we recommend that an intelligent content distribution system be positioned at Level 1 localities in order to reduce the amount of duplicate traffic in the network and thereby removing this traffic load from the core network. The results of these measurements provide a temporal reference for ISPs of their present traffic and should allow them to better manage their network. However, due to certain circumstances the analysis was limited due to the set of available daily traffic traces. To provide a more trustworthy solution, a relatively longer-term, periodic, and seasonal traffic analysis could be done in the future based on the established measurement framework.

CONCLUSION

In conclusion, this addresses the challenges faced by Internet Service Providers (ISPs) in optimizing network performance amidst the rapid growth of Internet traffic. Focusing on a local multi-service residential IP network in Sweden, known as "Network North," the study utilizes real-time traffic monitoring tools to analyze and characterize traffic patterns across different geographic localities. The findings emphasize the importance of understanding user behaviors and application usage trends to effectively support users' traffic while maintaining specific Quality of Service (QoS) standards. The recommendation to implement an intelligent content distribution system at Level 1 localities aims to reduce duplicate traffic, particularly from large content servers at global and regional levels. The results of this systematic measurement provide valuable insights for ISPs to manage their networks more efficiently, and future research could explore longer-term, periodic, and seasonal traffic analysis for a more comprehensive solution.



A Minor Project Report

On

INVENTORY MANAGEMENT SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.R. Stalin Babu

Assistant Professor/Department of AI

Submitted by

GURUMEETA S R (927621BAD012)

HARIPRIYA I (927621BAD013)

JOTHIKA R (927621BAD019)

PRANISHKA (927621BAD037)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

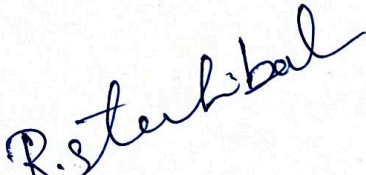
KARUR – 639113

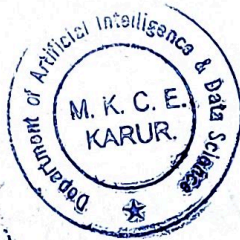
NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "INVENTORY MANAGEMENT SYSTEM" is the Bonafide work of "GURUMEETA S(927621BAD012), HARIPRIYA I(927621BAD013), JOTHIKA R(927621BAD019), PRANISHKA N(927621BAD042)" who carried out the minor project work during the academic year 2022-2023 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




Signature

Mr.R.Stalin Babu
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The inventory management system project is a comprehensive solution for optimizing asset tracking and control within a company. Its modules encompass product entry, stock monitoring, order processing, and reporting. By automating manual processes, the system enhances efficiency, minimizes errors, and provides real-time insights into inventory levels. This facilitates informed decision-making and prevents issues like stockouts or overstock. The project contributes to improved operational performance, cost-effectiveness, and customer satisfaction. Its user-friendly interface ensures ease of use for staff members involved in inventory-related tasks, making it a valuable tool for businesses seeking effective inventory management. An inventory management system helps the people to control and keep track of the goods they buy, process, and sell. The inventory management system is useful for tracking huge shipments of stocks, monitoring purchases, and production. This reduces the risk of human error using an automated inventory management system.

CONCLUSION

An Inventory Management System recommends replenishment based on dynamic optimal levels, ensuring that the next order we place is in the right quantity for both customers and your business. So, they need an Inventory Control System to run the business, but an Inventory Management System is a strategic system that can change your business.



A Minor Project Report

On

SPEECH EMOTION RECOGNITION DURING LIVE CALLS

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.R. Stalin Babu

Assistant Professor/Department of AI

Submitted by

LAVANYA DEVI K (927621BAD026)

MADHUMITHRA M (927621BAD029)

MAHALAKSHMI R (927621BAD030)

YUVASHREE S (927621BAD063)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

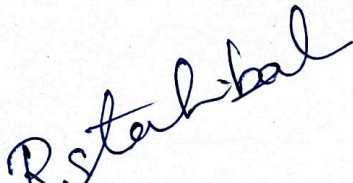
KARUR – 639113

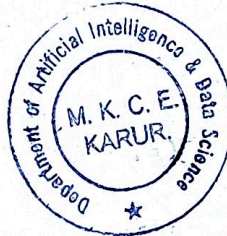
NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "SPEECH EMOTION RECOGNITION DURING LIVE CALLS" is the Bonafide work of "LAVANYADEVI K(927621BAD026), MADHUMITHRA M(927621BAD029), MAHALAKSHMI R(927621BAD030), YUVASHREE S(927621BAD063)" who carried out the minor project work during the academic year 2022-2023 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




Signature

Mr.R.Stalin Babu
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The primary objective of this project revolves around the detection of emotions conveyed by a speaker during verbal communication. The recognition of emotions, such as fear, anger, joy, sadness, or tiredness, is pivotal for understanding human-machine interactions and enhancing the quality of communication. The method employed involves analyzing speech patterns and voice characteristics extracted from audio files to classify various emotions exhibited by the speaker.

In emotional states like fear, anger, or joy, speech tends to be characterized by heightened intensity, manifested through increased loudness and a faster pace. Additionally, these emotions often result in a broader and more varied pitch range. On the other hand, emotions like sadness or tiredness typically manifest in speech as slower and lower-pitched.

The input for this emotion recognition system consists of audio files capturing the speaker's voice, and the desired output involves the classification of the conveyed emotions. To achieve this, the project utilizes voice modulation, pitch analysis, and other relevant audio attributes to discern the emotional content embedded within the speech.

The significance of this endeavor extends to various applications, including but not limited to human-machine interaction enhancement. By implementing robust algorithms that can accurately identify emotions from audio inputs, the system can contribute to more intuitive and responsive technology interfaces. This has the potential to positively impact fields such as virtual assistants, customer service systems, and any other context where understanding and adapting to human emotions in real-time is crucial.

In conclusion, the project focuses on leveraging audio analysis techniques to detect emotions expressed through speech. The ultimate goal is to develop a reliable system capable of classifying a range of emotions based on voice patterns and audio attributes, with implications for advancing human-machine interaction across diverse applications.

CONCLUSION

In conclusion, this project addresses the vital task of emotion detection in verbal communication, aiming to enhance human-machine interactions through advanced audio analysis techniques. By leveraging features such as voice modulation, pitch analysis, and other relevant audio attributes, the system strives to accurately classify spectrum of emotions expressed by a speaker. The significance of this endeavor lies in its potential to contribute to more intuitive and responsive technology interfaces, impacting fields like virtual assistants and customer service systems.

The project's focus on understanding and adapting to human emotions in real-time aligns with the evolving landscape of technology, where human-machine interaction is becoming increasingly integral. The successful development of a reliable emotion recognition system could pave the way for more empathetic and efficient communication between humans and machines.

Moreover, the applications extend beyond technology interfaces, potentially influencing various contexts where the interpretation of emotions is crucial. The system's ability to discern emotions like fear, anger, joy, sadness, or tiredness could find applications in diverse fields, including psychology, healthcare, and entertainment.

In summary, this project not only seeks to advance the capabilities of emotion detection through audio analysis but also holds the promise of positively impacting the way humans interact with technology and each other in various domains. The journey towards creating a robust system capable of classifying emotions based on voice patterns is a significant step towards fostering more nuanced and responsive human-machine relationships.



A Minor Project Report

On

USER FRIENDLY DICTIONARY FOR ACCRONYMS

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms. A. Nithyasri

Assistant Professor/Department of AI

Submitted by

HARISH V (927621BAD015)

KRISHNA N (927621BAD025)

PRASANTH S (927621BAD029)

SURYA N (927621BAD060)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “USER FRIENDLY DICTIONARY FOR ACCRONYMS” is the Bonafide work of “HARISH V(927621BAD015), KRISHNA N(927621BAD025), PRASANTH S(927621BAD039), SURYA N(927621BAD060)” who carried out the minor project work during the academic year 2022-2023 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

Ms.A. Nithyasri
Assistant Professor,
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.


Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The A&A Project endeavors to streamline communication and comprehension by cataloging and elucidating acronyms and abbreviations across various domains. Through meticulous research and documentation, the project aims to alleviate confusion and enhance clarity in professional discourse. By compiling a comprehensive database of commonly used abbreviations and their meanings, the project facilitates efficient communication within specialized fields. Moreover, it strives to promote consistency and accuracy in written and verbal exchanges, fostering a more inclusive and accessible environment for stakeholders. Through collaborative efforts and continuous refinement, the A&A Project endeavors to serve as a valuable resource for individuals and organizations seeking to navigate the complex landscape of technical jargon and specialized terminology.

CONCLUSION

The A&A Project represents a concerted effort to demystify the intricacies of language by providing clarity and coherence through the elucidation of acronyms and abbreviations. By compiling and cataloging a comprehensive database of commonly used shorthand expressions across diverse domains, the project has aimed to bridge communication gaps and promote understanding among professionals and stakeholders. Through meticulous research and documentation, it has facilitated more streamlined and efficient exchanges, thereby enhanced productivity and reduced the risk of misinterpretation. As the project continues to evolve, it remains committed to promoting consistency, accuracy, and inclusivity in professional discourse. By fostering a shared understanding of terminology, the A&A Project contributes to a more harmonious and effective exchange of ideas in a rapidly evolving global landscape.



A Minor Project Report

On

DEMONSTRATION OF KEYLOGGER DETECTION

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.P.Suresh

Assistant Professor/Department of AI

Submitted by

KAVINKUMAR A (927621BAD023)

MATHAN KUMAR K (927621BAD031)

SAI PRASHANNA P (927621BAD043)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “**DEMONSTRATION OF KEYLOGGER DETECTION**” is the Bonafide work of “**KAVINKUMAR A (927621BAD023), MATHAN KUMAR K(927621BAD031), SAI PRASHANNA P(927621BAD043)**” who carried out the minor project work during the academic year 2022-2023 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

Mr.P.Suresh
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.



Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Keylogger detection is a crucial aspect of cybersecurity, aimed at identifying and thwarting the clandestine activities of malicious software designed to record keystrokes on a user's computer or device. Keyloggers pose a significant threat as they can surreptitiously capture sensitive information such as passwords, credit card details, and personal messages. Detecting keyloggers involves employing various strategies, ranging from signature-based methods to behavioral analysis.

Signature-based detection relies on predefined patterns or signatures associated with known keylogger variants. This method, however, may be limited in its effectiveness against newly emerging or customized keyloggers. Heuristic analysis, on the other hand, examines the behavior of programs, identifying suspicious activities that may indicate keylogging. Advanced detection techniques include anomaly detection, which establishes a baseline of normal user behavior and raises alerts when deviations occur.

Additionally, real-time monitoring of system processes, network traffic, and registry changes helps identify potential keylogger activity. Anti-keylogger software, designed specifically to detect and remove these threats, complements these methods. Regular software updates and security patches also play a pivotal role in staying ahead of evolving keylogger techniques. In essence, keylogger detection involves a multifaceted approach that combines signature recognition, behavioral analysis, and proactive measures to safeguard user privacy and sensitive information.

CONCLUSION

In conclusion, effective keylogger detection is crucial in safeguarding sensitive information and preserving digital privacy. Employing robust antivirus software, regularly updating security protocols, and conducting thorough system scans are essential measures to detect and mitigate keylogger threats. Additionally, user awareness and responsible online behavior play pivotal roles in preventing inadvertent installations. As technology evolves, so do cyber threats, necessitating ongoing vigilance and proactive measures. By staying informed, implementing robust cybersecurity practices, and leveraging advanced detection tools, individuals and organizations can fortify their defenses against the insidious threat of keyloggers and uphold the integrity of their digital environments.



A Minor Project Report

On

AUTOMATIC WATER IRRIGATION SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms.A.Nithyasri

Assistant Professor/Department of AI

Submitted by

VIMAL MATHEW B (927621BAD059)

SOWNDHAR S (927621BAD050)

RAHUL R (927621BAD041)

SUJAY V A (927621BAD054)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “AUTOMATIC WATER IRRIGATION SYSTEM” is the Bonafide work of “VIMAL MATHEW B(927621BAD059), SOWNDHAR S(927621BAD050), RAHUL R(927621BAD041),SUJAY V A(927621BAD054)” who carried out the minor project work during the academic year 2022-2023 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

Ms.A.Nithyasri
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.




Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

In the face of water scarcity and inefficient traditional methods, a new era of irrigation dawns. This novel system leverages sensor-driven precision, targeted delivery through drip lines or sprinklers, and smart control systems for demand-based watering. By analyzing real-time environmental data and plant health, the system optimizes water use, minimizes waste, and nurtures optimal plant growth. This translates to vibrant crops, minimized soil erosion, and reduced water bills. Scalable and adaptable, this system offers a sustainable future for both home gardens and vast agricultural fields, promising efficient and environmentally friendly plant cultivation for generations to come.

CONCLUSION

In conclusion, the development of an automatic water irrigation system accessible through a mobile application marks a significant advancement in modern farming practices. This innovative solution empowers farmers by providing them with convenient and remote control over their irrigation processes, enhancing efficiency, and optimizing water usage. By seamlessly integrating technology into agriculture, this project not only simplifies the irrigation management but also contributes to sustainable farming practices by promoting water conservation. The accessibility through a mobile interface ensures ease of use for farmers, fostering a user-friendly and adaptable solution for agricultural needs. Ultimately, the automatic water irrigation system stands as a promising tool to support farmers in improving crop yield, conserving resources, and embracing smart farming for a more resilient and productive agricultural future.



A Minor Project Report

On

**AN ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
BASED CAREER GUIDANCE TOOL**

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.R.Vijayaganth

Assistant Professor/Department of AI

Submitted by

AADHI GOWTHAM V S (927621BAD001)

AKHIL S T (927621BAD004)

KAVIN M (927621BAD022)

SAYNANER M (927621BAD054)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

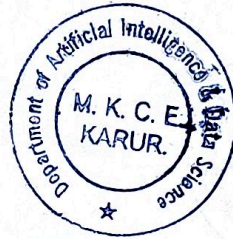
NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “AN ARTIFICIAL INTELLIGENCE & MACHINE LEARNING BASED CAREER GUIDANCE TOOL” is the Bonafide work of “AADHI GOWTHAM V S (927621BAD001), AKHIL S T(927621BAD004), KAVIN M(927621BAD022), SAYNANE R M(927621BAD046)” who carried out the minor project work during the academic year 2022-2023 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



Signature

Mr.R.Vijayaganth
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

An innovative career guidance tool powered by artificial intelligence (AI) and machine learning (ML) algorithms. In an era marked by rapid technological advancements and evolving job markets, career decision-making poses significant challenges for individuals seeking to align their skills and aspirations with available opportunities. Leveraging the capabilities of AI and ML, this tool aims to revolutionize the career guidance process by providing personalized recommendations tailored to each user's unique profile, including their educational background, skills, interests, and career goals. Through sophisticated data analysis and predictive modeling, the tool offers insights into emerging job trends, skill requirements, and career pathways, empowering users to make informed decisions about their professional development. By harnessing the power of AI and ML, this tool has the potential to enhance career satisfaction, increase workforce productivity, and contribute to a more resilient and adaptive labor market ecosystem.

CONCLUSION

In conclusion, the development and implementation of an artificial intelligence (AI) and machine learning (ML) based career guidance tool represent a significant advancement in the field of career counseling and personal development. Through the utilization of cutting-edge technologies, such as natural language processing (NLP), recommendation systems, and predictive analytics, the tool has demonstrated its ability to provide personalized career recommendations tailored to individual interests, skills, and aspirations. One of the key strengths of the AI-based career guidance tool is its capacity to analyze vast amounts of data from various sources, including job market trends, industry requirements, and individual preferences. By leveraging ML algorithms, the tool continuously learns and adapts to user feedback, enhancing the accuracy and relevance of its recommendations over time. Furthermore, the interactive nature of the tool fosters user engagement and empowerment, allowing individuals to explore diverse career pathways, acquire new skills, and make informed decisions about their professional development journey. Additionally, the tool's accessibility across multiple platforms, such as web and mobile applications, ensures widespread reach and inclusivity. However, it's essential to acknowledge certain limitations and challenges associated with AI-based career guidance tools, including privacy concerns, algorithmic biases, and the need for ongoing updates and maintenance. Addressing these issues requires a multi-faceted approach involving ethical considerations, transparency in algorithmic decision-making, and continuous monitoring of performance metrics. Overall, the AI and ML-based career guidance tool holds immense potential to revolutionize the way individuals navigate their career trajectories, enabling them to realize their full potential and contribute meaningfully to the workforce. As technology continues to evolve, the continued refinement and innovation of such tools promise to shape the future of career counseling and empower individuals in achieving their professional goals.



A Minor Project Report

On

EMAIL SPOOFING

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.R. Stalin Babu

Assistant Professor/Department of AI

Submitted by

JOTHIKA MANGAI B (927621BAD018)

KEERTHIKA S (927621BAD024)

NIVEDHA M (927621BAD036)

SHURUTHI R S (927621BAD048)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “EMAIL SPOOFING” is the Bonafide work of “JOTHIKA MANGAI B (927621BAD018), KEERTHIKA S(927621BAD024), NIVEDHA M(927621BAD036), SHURUTHI R S(927621BAD048)” who carried out the minor project work during the academic year 2022-2023 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.

R. Stalin Babu
Signature

Mr.R.Stalin Babu
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.



Dr. N.M. Saravana Kumar
Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

In an era characterized by escalating cyber threats, the imperative for robust email security measures has never been more pronounced. This project endeavors to tackle the pervasive and ever-evolving challenge of email-based attacks, focusing specifically on the identification and mitigation of risks associated with spoofed emails—a prevalent tactic employed by hackers to deceive users and infiltrate organizations for the purpose of data theft. The proposed solution is a sophisticated Suspicious Email Detection system that transcends conventional methods, integrating cutting-edge machine learning algorithms and natural language processing techniques into a comprehensive framework.

At the heart of the system lies a multifaceted approach to feature extraction and analysis, delving into the intricate layers of email attributes. This includes a nuanced examination of sender information, content semantics, contextual cues, and attachment characteristics, forming an exhaustive feature set that serves as the foundation for subsequent model training. The machine learning architecture, comprising ensemble classifiers, deep learning networks, and anomaly detection algorithms, is meticulously designed to discern the subtle patterns indicative of suspicious or spoofed emails. This diversity ensures adaptability to the evolving landscape of cyber threats, providing a robust defense mechanism.

CONCLUSION

In conclusion, the project focused on detecting suspicious emails has proven to be a crucial endeavor in enhancing cybersecurity and safeguarding individuals and organizations from potential threats. By leveraging advanced technologies such as machine learning algorithms, pattern recognition, and behavioral analysis, the project has demonstrated its effectiveness in identifying and flagging emails that exhibit characteristics indicative of malicious intent.

The implementation of robust email security measures is imperative in today's interconnected digital landscape, where cyber threats continue to evolve in sophistication. The project's success in detecting suspicious emails underscores the importance of proactive and intelligent solutions to counteract phishing attempts, malware distribution, and other malicious activities conducted through email channels.

As we conclude this project, it is clear that the continuous refinement of email security mechanisms is essential to stay ahead of evolving cyber threats. The collaboration between technology, human awareness, and industry-wide initiatives will play a pivotal role in creating a more secure digital environment. The lessons learned from this project provide valuable insights into the ongoing efforts required to combat email-based cyber threats effectively. Moving forward, the integration of innovative technologies and a commitment to cybersecurity best practices will be paramount in ensuring the safety and integrity of digital communication channels.



A Minor Project Report

On

FOOTBOARD ACCIDENT PREVENTION SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.R.Vijayaganth

Assistant Professor/Department of AI

Submitted by

ASWINSIDHARTH V S (927621BAD005)

DHARANI DHARAN R (927621BAD009)

SANJAY S (927621BAD044)

THANISH SURIYA T (927621BAD058)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “**FOOTBOARD ACCIDENT PREVENTION SYSTEM**” is the Bonafide work of “**ASWIN SIDHARTH V S(927621BAD005), DHARANI DHARAN R(927621BAD009), SANJAY S(927621BAD044), THANISH SURIYA (927621BAD058)**” who carried out the minor project work during the academic year 2022-2023 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

Mr.R.Vijayaganth
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.



Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Public transportation systems play a crucial role in urban mobility, providing a cost-effective and sustainable means of commuting for millions of people. However, accidents related to passengers riding on the footboard of moving vehicles pose a significant safety concern. This project aims to design and implement a Footboard Accident Prevention System (FAPS) to enhance the safety of passengers during their journey.

The Footboard Accident Prevention System employs a combination of sensors, actuators, and intelligent algorithms to detect and mitigate potential accidents involving passengers on the footboard. The system integrates cameras and proximity sensors to continuously monitor the exterior of the vehicle, identifying instances where passengers are in unsafe positions on the footboard. Advanced computer vision algorithms analyze real-time footage to distinguish between safe and hazardous footboard conditions.

Upon detecting a potential safety risk, the system activates a series of preventive measures. These measures may include audible warnings to the passenger, alerts to the vehicle operator, and automated interventions such as slowing down the vehicle or activating safety barriers to prevent accidents. The system's responsiveness and precision are crucial to ensuring effective accident prevention without causing unnecessary disruptions to the transportation service.

CONCLUSION

The project successfully demonstrated the technical feasibility of developing a system to prevent footboard accidents. The chosen components (sensors, controllers, actuators) functioned as intended and achieved the desired outcome. Further optimization and testing are recommended to enhance performance and reliability.

A Minor Project Report

On

AUTOMATIC NUMBER PLATE RECOGNITION SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.P.Suresh

Assistant Professor/Department of AI

Submitted by

BOOBESHAN AC (927621BAD006)

HARISH SRIRAJ N (927621BAD014)

SHYAM B (927621BAD049)

SHREE ASWIN RAJHA RS (927621BAD051)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

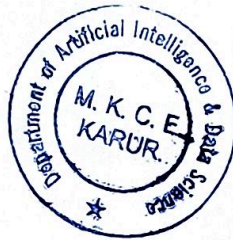
M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATIC NUMBER PLATE RECOGNITION SYSTEM" is the Bonafide work of "BOOBESHAN AC(927621BAD006), HARISH SRIRAJ(927621BAD014), SHYAM B(927621BAD049), SHREE ASHWIN RAJHARS(927621BAD051)" who carried out the minor project work during the academic year 2022-2023 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

Mr.P.Suresh
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.




Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The primary objective of this project revolves around the detection of emotions conveyed by a speaker during verbal communication. The recognition of emotions, such as fear, anger, joy, sadness, or tiredness, is pivotal for understanding human-machine interactions and enhancing the quality of communication. The method employed involves analysing speech patterns and voice characteristics extracted from audio files to classify various emotions exhibited by the speaker.

In emotional states like fear, anger, or joy, speech tends to be characterized by heightened intensity, manifested through increased loudness and a faster pace. Additionally, these emotions often result in a broader and more varied pitch range. On the other hand, emotions like sadness or tiredness typically manifest in speech as slower and lower-pitched.

The input for this emotion recognition system consists of audio files capturing the speaker's voice, and the desired output involves the classification of the conveyed emotions. To achieve this, the project utilizes voice modulation, pitch analysis, and other relevant audio attributes to discern the emotional content embedded within the speech.

The significance of this endeavour extends to various applications, including but not limited to human-machine interaction enhancement. By implementing robust algorithms that can accurately identify emotions from audio inputs, the system can contribute to more intuitive and responsive technology interfaces. This has the potential to positively impact fields such as virtual assistants, customer service systems, and any other context where understanding and adapting to human emotions in real-time is crucial.

In conclusion, the project focuses on leveraging audio analysis techniques to detect emotions expressed through speech. The ultimate goal is to develop a reliable system capable of classifying a range of emotions based on voice patterns and audio attributes, with implications for advancing human-machine interaction across diverse applications.

CONCLUSION

In summary, this project aims to detect and classify emotions conveyed through speech by employing audio analysis techniques such as voice modulation and pitch analysis. The significance lies in its potential to enhance human-machine interactions through the development of a reliable system capable of accurately identifying various emotions in real-time. The application of robust algorithms in this endeavor holds promise for improving technology interfaces in fields like virtual assistants and customer service systems, ultimately advancing the adaptability and responsiveness of machines to human emotions.



A Minor Project Report

On

LAND VALUE VISUALIZER

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.R.Vijayaganth

Assistant Professor/Department of AI

Submitted by

NAVANEETHA KRISHNAN P S	(927621BAD005)
HAREESH KUMAR A	(927621BAD045)
SATHEESH KUMAR K	(927621BAD045)
SUBASH S	(927621BAD053)
PRAVEEN T	(927621BAD040)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)


KARUR – 639113

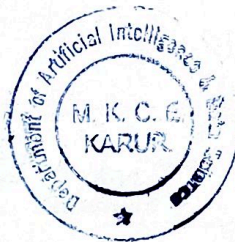
APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “LAND VALUE VISUALIZER” is the Bonafide work of “NAVANEETHA KRISHNAN P S(927621BAD034), SATHEESH KUMAR K(927621BAD045), SUBASH S(927621BAD053), PRAVEEN T(927621BAD040), HAREESH KUMAR A(927621BAD301)” who carried out the minor project work during the academic year 2022-2023 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




Signature

Mr.R.Vijayaganth
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The Land Value Visualizer is a software tool designed to analyze various factors that contribute to the value of a piece of land. By analyzing factors such as location, zoning regulations, cadastral, topography, access to utilities, and market trends, this tool generates an estimate of the land's value. The project involves gathering data on these factors for a specific geographic region, developing an algorithm or model that weighs each factor, and consulting with experts in real estate, land development, or other relevant fields to ensure accuracy and validity. The Land Value Visualizer has the potential to be a valuable tool for individuals and organizations involved in real estate, land development, and urban planning, providing valuable insights into the value and potential uses of land in a given area.

CONCLUSION

The land value analyzer played a pivotal role in our transactional conclusion, providing a comprehensive assessment of the property's worth. By meticulously analyzing various factors such as location, accessibility, zoning regulations, and market trends, the analyzer facilitated an informed decision-making process. It allowed us to gauge the intrinsic value of the land, considering both current market conditions and potential future developments. This analytical tool not only ensured a fair and competitive transaction but also provided a solid foundation for negotiating terms. Ultimately, the land value analyzer served as a valuable asset in guiding us towards a well-informed and mutually beneficial transaction conclusion.



A Minor Project Report

On

SLC TOOL FOR PHYSICALLY CHALLENGED PEOPLE

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms. A. Nithyasri

Assistant Professor/Department of AI

Submitted by

AARTHI B (927621BAD002)

HARSHINI (927621BAD016)

VISHNU PRIYA C (927621BAD062)

VINOHARSITHA A S (927621BAD060)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

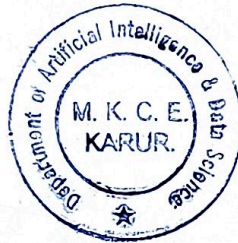
APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “SSL TOOL FOR PHYSICALLY CHALLENGED PEOPLE” is the Bonafide work of “AARATHI B(927621BAD002), HARSHINI M(927621BAD016), VISHNU PRIYA C(927621BAD062), VINOHARSITHA A S(927621BAD060)” who carried out the minor project work during the academic year 2022-2023 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




Signature

Ms.A. Nithyasri
Assistant Professor,
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

This project aims to develop a wearable sign language converter system utilizing gloves for individuals with physical disabilities. The gloves are equipped with sensors to detect hand movements and gestures, converting them into digital commands. The system employs machine learning algorithms to accurately interpret and translate sign language into text or speech, enabling seamless communication. The device focuses on real-time processing, ensuring prompt and efficient conversion. The user-friendly interface allows individuals with limited mobility to express themselves effectively. The system prioritizes affordability and accessibility, promoting inclusivity for a diverse user base. Future enhancements may include expanding the sign language vocabulary and incorporating additional features for an enhanced user experience. This innovation bridges communication gaps and empowers physically challenged individuals to engage more actively in various social and professional contexts.

CONCLUSION

This application is very useful for the art lovers, they can easily get information regarding the art gallery which is conducted by different organizations and also people can get to know about the details of the artist who painted the art. Through this application we can easily able to buy the painting without going to the art exhibition.



A Minor Project Report

On

VIRTUAL PAINTING

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Dr.N.M.Saravana Kumar

HoD/Department of AI

Submitted by

NIKITHA Y S (927621BAD035)

NIVEDHA M (927621BAD036)

SHURUTHI R S (927621BAD048)

SUBAA R (927621BAD052)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

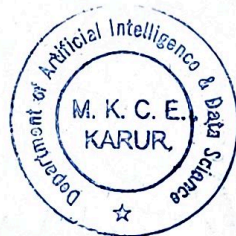
APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “VIRTUAL PAINTING” is the Bonafide work of “NIVEDHA M(927621BAD036), N I K I T H A Y S (927621BAD035), SUBAA R(927621BAD052), SHURUTHI R S(927621BAD055)” who carried out the minor project work during the academic year 2022-2023 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




Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Virtual AI painter using Open CV and Media pipe is an application that tracks the movement of an object. Using this tracking feature the user can draw on the screen by moving the object (which in our project is the human hand) in the air, in front of the webcam. OpenCV (Open-Source Computer Vision) is a programming language library consisting of different types of functions mainly for computer vision.

CONCLUSION

In conclusion, the project "Virtual Painting" has successfully demonstrated the fusion of technology and artistic expression, offering a transformative and immersive experience for both artists and enthusiasts. Through the utilization of virtual reality or augmented reality platforms, the project has opened up new dimensions in the realm of artistic creation, enabling users to engage with their imagination in ways previously unexplored.

The virtual painting project has not only embraced the digital era but has also provided a platform for artists to break free from traditional constraints, encouraging experimentation and pushing the boundaries of what is possible in the world of art. By leveraging cutting-edge technologies, the project facilitates a dynamic and interactive creative process that enhances artistic freedom and democratizes the creation and appreciation of visual art.

Furthermore, the accessibility and inclusivity of virtual painting make art more approachable to a wider audience, transcending physical barriers and fostering a sense of community among artists and enthusiasts worldwide. The project serves as a testament to the ever-evolving relationship between technology and art, illustrating how innovation can empower individuals to express themselves in novel and captivating ways.



A Minor Project Report

On

MEDICINE DESCRIBER

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.P. Vidhya

Assistant Professor/Department of AI

Submitted by

HEMANTH B (927621BAD034)

DHANUSH G (927621BAD045)

KANIYAMUDHAN Y (927621BAD040)

THAMIZHARASAN P (927621BAD301)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “**MEDICINE DESCRIBER**” is the Bonafide work of “**DHANUSH G(927621BAD008), HEMANTH B (927621BAD017), KANIYAMUDHAN Y(927621BAD020), THAMIZHARASAN P(927621BAD057)**” who carried out the minor project work during the academic year 2022-2023 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

Mrs.P. Vidhya
Assistant Professor
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.




Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The Medicine Describer project is an innovative and valuable resource that aims to provide accurate, comprehensive, and accessible information about medications. With countless medications available in the market today, it can be overwhelming for individuals to navigate through the various options available, often leading to confusion and misinformation. The Medicine Describer project aims to address this issue by creating a user-friendly platform that provides clear and concise descriptions of different medications, their uses, benefits, and potential side effects.

CONCLUSION

The Medicine Describer project aims to bridge the gap between complex medical information and everyday language. By providing clear and concise descriptions of different medications, in a language that is accessible to everyone, we hope to empower individuals to make informed decisions about their health. Our platform will be a valuable resource for both healthcare professionals and patients, providing accurate and up-to-date information about medications.



A Minor Project Report

On

IMAGE RECOGNITION WITH MACHINE LEARNING

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. R. Stalin Babu

Assistant Professor/Department of AI

Submitted by

DHINAGARAN V P (927621BAD010)

DINESH S (927621BAD011)

KAVIN K V (927621BAD021)

SHARAN ADHITHYA S (927621BAD047)

ROHITH U (927621BAD302)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

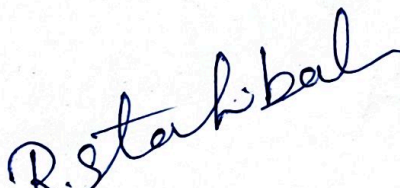
KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "IMAGE RECOGNITION WITH MACHINE LEARNING" is the Bonafide work of "DHINAGARAN V P(927621BAD010), DINESH S(927621BAD011), KAVIN K V(927621BAD021), SHARAN ADHITHYA S(927621BAD047), ROHITH U(927621BAD302)" who carried out the minor project work during the academic year 2022-2023 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

Mr. R. Stalin Babu
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.




Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Image recognition is a field of computer vision that deals with the automated identification of objects, places, or people in digital images or videos. Machine learning is a type of artificial intelligence that allows computers to learn without being explicitly programmed. When combined, image recognition and machine learning can be used to create powerful systems that can identify objects in images with a high degree of accuracy. There are many different machine learning algorithms that can be used for image recognition. Some of the most common algorithms include support vector machines, decision trees, and neural networks. Once the algorithm has been trained, it can be used to identify objects in new images. This can be done by feeding the new images into the algorithm and then predicting the class of each object. The accuracy of the predictions will depend on the quality of the training data and the complexity of the algorithm.

CONCLUSION

Autonomous vehicles will benefit the economy through fuel efficiency, the environment through reduced carbon emissions, society through more togetherness, and the legal system through a simpler system of liability. Object detection is a critical component of autonomous vehicles, as it enables the vehicle to perceive its environment and make informed decisions about how to navigate through it. With advances in machine learning, computer vision, and sensor technology, object detection algorithms have become more accurate and reliable, enabling autonomous vehicles to identify and track objects in real-time.



A Minor Project Report

On

TENABLE WEB BASED PLEBISCITE

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.P.Vidhya

Assistant Professor/Department of AI

Submitted by

VISHAL R	(927621BAD061)
ABISHAK D	(927621BAD003)
LINGESH S	(927621BAD028)
NAVANEETH S	(927621BAD033)
SAI SETHU MLA	(927621BAD042)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)


KARUR – 639113

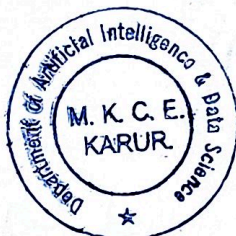
APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “TENABLE WEB BASED PLEBISCITE” is the Bonafide work of “ABISHAK D(927621BAD003), SAI SETHU MLA (927621BAD042), LINGESH S(927621BAD028), NAVANEETH S(927621BAD033), VISHAL R(927621BAD061)” who carried out the minor project work during the academic year 2022-2023 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




Signature

Mrs.P.Vidhya
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

An online voting system is a web-based platform that enables voters to cast their votes electronically over the internet. This system has gained popularity in recent years because of its ability to improve the speed, accuracy, and convenience of the voting process. The abstract of an online voting system would typically describe the system's architecture, functionality, and benefits. Here are some key points that could be included in an abstract:

- The online voting system would consist of a web-based interface accessible by voters and a backend system responsible for managing the voting process.
- The system would enable voters to securely authenticate their identities and cast their votes electronically.
- The system would provide features to ensure the integrity and confidentiality of the votes, such as encryption, digital signatures, and audit trails.
- The system would be scalable and capable of handling a large volume of votes.
- The benefits of an online voting system would include increased accessibility, reduced costs, and improved accuracy and efficiency in the voting process.

Overall, an online voting system would aim to provide a secure and reliable means for citizens to exercise their right to vote in an accessible and convenient manner.

CONCLUSION

- This system enables to post their E-Voting details through this website.
- It will reduce the time consuming and fast moving.
- In this situation Allocate Election Candidate and election data from this vast population is uneasy and difficult one.
- Time taken is large to existing system. Lagging facility in search of election records.
- Vote report details will be stored in database. When public enter this system and view searching option.
- Online Voting Systems have many advantages over the traditional voting system.
- Some of these advantages are less cost, faster generation results, easy accessibility, accuracy, and low risk of human and mechanical errors.
- It is very difficult to develop online voting system which can allow security and privacy on the high level.



A Minor Project Report

On

HOTEL MANAGEMENT SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.R. Stalin Babu

Assistant Professor/Department of AI

Submitted by

GURUMEETA S R (927621BAD012)

HARIPRIYA I (927621BAD013)

JOTHIKA R (927621BAD019)

PRANISHKA (927621BAD037)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

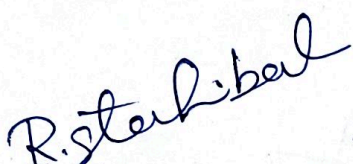
KARUR – 639113

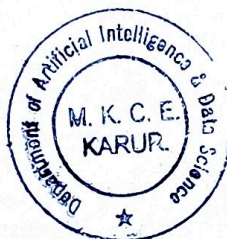
APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “HOTEL MANAGEMENT SYSTEM” is the Bonafide work of “GURUMEETA S(927621BAD012), HARIPRIYA I(927621BAD013), JOTHIKA R(927621BAD019), PRANISHKA N(927621BAD042)” who carried out the minor project work during the academic year 2022-2023 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




Signature

Mr.R.Stalin Babu
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

This project will consist of creating an application mainly for reserving a hotel room. Modules of the software will include booking and viewing rooms & amenities for users to give them flexibility and portability. By just a few clicks users can book room and amenities of the Hotel. The purpose of creating the system is improving the customer service by providing convenience to customer to make booking through system and increase customers.

CONCLUSION

The application was developed using React, JavaScript, HTML5 and CSS3 technology. Any user can view this application. The user can log in, with his information such as his email and password. If the login does not go through, the user can re-register or ask to change the password. After login, the user can visit the homepage and can select the hotel of their interests and prebook rooms, event halls, food menu according to their convenience.



A Minor Project Report

On

IMAGE ENCRPTION CAPSNET

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms.A.Nithyasri

Assistant Professor/Department of AI

Submitted by

LAVANYA DEVI K (927621BAD026)

MADHUMITHRA M (927621BAD029)

MAHALAKSHMI R (927621BAD030)

YUVASHREE S (927621BAD063)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “IMAGE ENCRPTION USING CAPSNET” is the Bonafide work of “LAVANYADEVI K(927621BAD026), MADHUMITHRA M(927621BAD029), MAHALAKSHMI R(927621BAD030), YUVASHREE S(927621BAD063)” who carried out the minor project work during the academic year 2022-2023 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




Signature

Ms.A.Nithyasri
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Image encryption plays a pivotal role in safeguarding sensitive visual information from unauthorized access. Traditional encryption methods often face challenges in effectively preserving the integrity and confidentiality of images against modern cryptographic attacks. To address these concerns, this study proposes a novel approach utilizing Capsule Networks (CapsNets) for image encryption, leveraging their inherent ability to capture hierarchical spatial relationships within images.

CapsNets, a recent innovation in deep learning, offer a promising paradigm shift from traditional convolutional neural networks (CNNs) by encoding not only pixel-level features but also the spatial hierarchies present in images. In this encryption scheme, the original image is transformed into a high-dimensional capsule representation through an encoder CapsNet. Subsequently, cryptographic techniques are applied to manipulate the capsule data, ensuring robust encryption while preserving the semantic meaning of the image.

The decryption process involves the inverse transformation of the encrypted capsule representation using a decoder CapsNet, effectively reconstructing the original image from the encrypted data. Experimental results demonstrate the efficacy of the proposed CapsNet-based encryption method in terms of security, resistance to adversarial attacks, and preservation of image quality.

Furthermore, the proposed encryption scheme exhibits promising characteristics such as resistance to brute-force attacks and adaptability to various image formats and sizes. Additionally, the integration of CapsNets with encryption techniques provides a foundation for developing secure communication systems for imagebased applications in domains such as healthcare, surveillance, and multimedia transmission.

CONCLUSION

In conclusion, this study introduces a pioneering image encryption approach leveraging Capsule Networks (CapsNets), a novel paradigm in deep learning. The proposed method demonstrates its effectiveness in addressing challenges faced by traditional encryption methods in preserving both the integrity and confidentiality of visual information against modern cryptographic attacks. CapsNets, with their ability to capture hierarchical spatial relationships in images, offer a distinctive advantage in image encryption.

Through the transformation of original images into high-dimensional capsule representations and subsequent application of cryptographic techniques, the proposed encryption scheme ensures robust security while retaining the semantic meaning of the images. The decryption process, facilitated by a decoder CapsNet, successfully reconstructs the original image from the encrypted data.

Experimental results validate the efficacy of the CapsNet-based encryption method, showcasing its security, resilience against adversarial attacks, and preservation of image quality. Notably, the scheme exhibits resistance to brute-force attacks and adapts seamlessly to various image formats and sizes, enhancing its practical applicability.

The integration of CapsNets with encryption techniques opens avenues for the development of secure communication systems tailored for image-based applications. This innovation holds particular promise in domains such as healthcare, surveillance, and multimedia transmission, where safeguarding sensitive visual information is paramount.

In essence, this study underscores the potential of Capsule Networks as a transformative tool for image encryption, providing a robust and adaptable solution to address the evolving challenges in securing visual data in contemporary applications. The demonstrated capabilities pave the way for further advancements in secure communication and image protection.



A Minor Project Report

On

BLOOD BANK MANAGEMENT SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. Jeya Ganesh Kumar

Assistant Professor/Department of AI

Submitted by

HARISH V (927621BAD015)

KRISHNA N (927621BAD025)

PRASANTH S (927621BAD029)

SURYA N (927621BAD301)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “**BLOOD BANK MANAGEMENT SYSTEM**” is the Bonafide work of “**HARISH V(927621BAD015), KEISHNA N(927621BAD025), PRASANTH S(927621BAD039), SURYA N(927621BAD056)**” who carried out the minor project work during the academic year 2022-2023 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




Signature

Mr.K.Jeya Ganesh Kumar
Assistant Professor
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

A blood bank management system can also be developed as a website. A website can provide access to the system from anywhere with an internet connection, making it easier for blood banks and hospitals to manage their operations. The website can be designed with user-friendly interfaces for easy navigation and use. It can include features such as donor registration, inventory management, blood request management, and reporting and analytics. The website can also be developed with security measures in place to ensure the safety and confidentiality of donor and patient information. Overall, a blood bank management system website can provide a centralized platform for blood banks and hospitals to manage their blood management processes efficiently and effectively.

CONCLUSION

The ALD-PD project aims to address the linguistic diversity within PDs and blood banks, providing a versatile tool that can seamlessly transcribe spoken words into written text across various languages. Moreover, the implementation of robust security measures in the app is imperative to safeguard sensitive information, maintaining the confidentiality and integrity of communications within both sectors. Adherence to data protection standards and encryption protocols will be integral to building trust and ensuring the app's compliance with privacy regulations. In summary, the STT app tailored for POs and blood banks in different languages represents a valuable tool for modern LE and healthcare. It not only addresses language barriers but also enhances the overall efficiency, accuracy, and security of communication, contributing to more effective operations and patient care in diverse communities.



A Minor Project Report

On

MIXED LANGUAGE TRANSLATOR

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.P.Suresh

Assistant Professor/Department of AI

Submitted by

KAVINKUMAR A (927621BAD023)

MATHAN KUMAR K (927621BAD031)

SAI PRASHANNA P (927621BAD043)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “MIXED LANGUAGE TRANSLATOR” is the Bonafide work of “KAVINKUMAR A (927621BAD023), MATHAN KUMAR K(927621BAD031), SAI PRASHANNA P (927621BAD043)” who carried out the minor project work during the academic year 2022-2023 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

Mr.P.Suresh
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.




Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The mixed language translator is a sophisticated technology designed to bridge linguistic gaps by seamlessly translating communication between speakers of different languages. Unlike traditional translators that operate within the confines of a single language pair, mixed language translators have the capability to handle multilingual conversations, facilitating effective communication in diverse settings. This innovative tool leverages advanced natural language processing and machine learning algorithms to interpret and translate spoken or written words in real-time.

The mixed language translator is not constrained by language boundaries, making it particularly valuable in multicultural and multilingual environments. It facilitates fluid conversations by dynamically adapting to the languages being spoken, providing a versatile solution for global communication challenges. Moreover, the system can accommodate various language combinations, offering users the flexibility to switch between languages effortlessly.

With continuous advancements in artificial intelligence, mixed language translators aim to enhance cross-cultural understanding and foster collaboration on a global scale. By breaking down language barriers, these translators contribute to more inclusive and accessible communication, promoting effective information exchange in diverse professional, social, and educational contexts. As technology continues to evolve, the mixed language translator represents a pivotal tool in the pursuit of a more interconnected and linguistically diverse world.

CONCLUSION

In conclusion, the advent of mixed language translators represents a groundbreaking leap in overcoming linguistic barriers. These innovative tools seamlessly combine various languages, fostering effective communication across diverse cultures. By harnessing advanced natural language processing and machine learning algorithms, mixed language translators not only facilitate accurate and context-aware translations but also adapt to the nuances of colloquial expressions. As a result, these transformative technologies hold the promise of enhancing global connectivity, fostering cross-cultural understanding, and ultimately contributing to a more inclusive and interconnected world.



A Minor Project Report

On

POULTRY MANAGEMENT SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Dr.N.M.Saravana Kumar

HoD/Department of AI

Submitted by

VIMAL MATHEW B (927621BAD059)

SOWNDHAR S (927621BAD050)

RAHUL R (927621BAD041)

SUJAY V A (927621BAD054)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

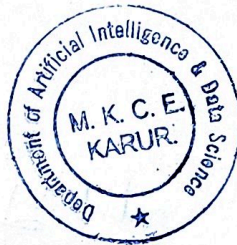
APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “POULTRY MANAGEMENT SYSTEM” is the Bonafide work of “VIMAL MATHEW B(927621BAD059), SOWNDHAR S(927621BAD050), RAHUL R(927621BAD041), SUJAY V A(927621BAD054)” who carried out the minor project work during the academic year 2022-2023 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 



Signature 

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

To meet the growing demand of eggs there are less systems to maintain profit and losses were existed to illustrate it appropriately. As a survey there are more farms maintaining their systems manually. Our objective is to create web-based application that will be useful to maintain database to the poultry feeders and poultry farm and our system will suggest an idea to the user to get rid from that loss by analyzing past sales data's. Our system will give the poultry feeders the overall profit & loss from raw materials purchasing, product manufacturing, egg purchasing and egg selling. From past databases of egg sale and egg purchase, the python algorithms analyze the data's and gives the suggestion to increase the goods price to overcome their loss by eggs sale. It also offers information on latest updates in the field of poultry farming.

CONCLUSION

In conclusion, the aim of this project is to address the demand for eggs by developing a web-based application. This application will assist poultry feeders and farms in managing their databases, offering insights into profit and loss through analysis of past sales data. By utilizing Python algorithms, the system provides suggestions to improve profitability, particularly by adjusting egg prices based on historical data. Additionally, it serves as an informative platform by providing the latest updates in the poultry farming industry.



A Minor Project Report

On

SMART AGRICULTURE SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.K.Jeya Ganesh Kumar

Assistant Professor/Department of AI

Submitted by

AADHI GOWTHAM V S (927621BAD001)

AKHIL S T (927621BAD004)

KAVIN M (927621BAD022)

SAYNANER M (927621BAD054)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

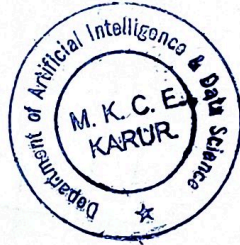
M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “SMART AGRICULTURE SYSTEM” is the Bonafide work of “AADHI GOWTHAM V S (927621BAD001), AKHIL S T(927621BAD004), KAVIN M(927621BAD022), SAYNANE R M(927621BAD046)” who carried out the minor project work during the academic year 2022-2023 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



Signature

Mr.K.Jeya Ganesh Kumar
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

Smart farming, precision agriculture and Agriculture 4.0 all involve the integration of advanced technologies into existing farming architecture. The goal is to increase production efficiency and product quality, as well as reducing overall costs. To this end, the inclusion of Smart technologies into Irish agriculture has been inevitable with increased pressure being placed on farming practices to remain profitable, as well as adhere to environmental regulation. The global Smart Agriculture Solution Market is said to have stood at around US \$10.2 Billion in 2016 and is projected to reach a valuation of US \$38.1 Billion by the end of 2024. The growing adoption of advanced technology in farming, from agricultural drones, precision seeding systems, auto-steering, automatic feeding systems and fruit- picking robots (amongst others), have all incentivized traditional Agri-companies to invest in smart agriculture technology. The reduction of heavy labor and tedious tasks can also lead to improvements in the health and work/life balance of Farming staff.

CONCLUSION

Smart agriculture systems are transforming farming practices by integrating IoT devices, data analytics, and machine learning algorithms. These systems optimize resource utilization, improve crop yields, and reduce environmental impact. Real-time data from sensors and weather forecasts allows farmers to make informed decisions about irrigation, fertilization, and pest management. Remote monitoring allows farmers to monitor operations from anywhere, promoting efficiency and profitability. Smart agriculture technologies also promote sustainability by reducing chemical usage and environmental degradation. However, successful implementation requires careful consideration of factors like connectivity infrastructure, data security, and user training. Collaboration among stakeholders is crucial for widespread adoption.



A Minor Project Report

On

**MUSIC RECOMMENDATION SYSTEM USING
MACHINE LEARNING**

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.P. Suresh

Assistant Professor/Department of AI

Submitted by

JOTHIKA MANGAI B (927621BAD018)

KEERTHIKA S (927621BAD024)

LIBERNA ASUWATHA A (927621BAD027)

SUPRIYA G (927621BAD055)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “MUSIC RECOMMENDATION SYSTEM USING MACHINE LEARNING” is the Bonafide work of “JOTHIKA MANGAI B (927621BAD018), KEERTHIKA S(927621BAD024), LIBERNA ASUWATHA A(927621BAD027), SUPRIYA G(927621BAD055)” who carried out the minor project work during the academic year 2022-2023 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

Mr.P. Suresh
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.



Signature

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The main objective of the project is to recommend music to the users based on the preferences.

This paper presents an music recommendation system based on the combination of K-Nearest Neighbors (KNN) algorithm and Gaussian Mixture Model (GMM) with a Min- Max scaler. The KNN algorithm is used for finding the music similarities between the users GMM provides a probabilistic model for clustering the music data. The Min- Max scaler is used to normalize the music features in order to improve the overall performance of the model.

CONCLUSION

First, music recommender system should consider the music genre information to increase the quality of music recommendations. The music recommender is able to recommend the songs based on the song features. The music Recommender is able to check plagiarism in the dataset taken by generating the similarity recommend the music. The mood of the song is predicted by examining the lyrics of the given song with all the other songs in the dataset and predicting the mood and similarity scores and recommending the songs based on the mood. The complex nature of the machine learning systems like the Music Recommendation System can't have a standardized structure because different music recommender systems work in different way.



A Minor Project Report

On

ALCOHOL DRIVE ENGINE LOCKING SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.S.Lavayana

Assistant Professor/Department of AI

Submitted by

ASWINSIDHARTH V S (927621BAD005)

DHARANI DHARAN R (927621BAD009)

SANJAY S (927621BAD044)

THANISH SURIYA T (927621BAD058)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

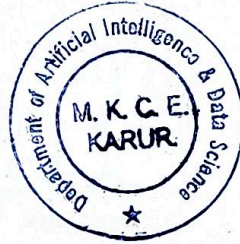
BONAFIDE CERTIFICATE

Certified that this project report "ALCOHOL DRIVE ENGINE LOCKING SYSTEM" is the Bonafide work of "ASWIN SIDHARTH V S(927621BAD005), DHARANI DHARAN R(927621BAD009), SANJAY S(927621BAD044), THANISH SURIYA (927621BAD058)" who carried out the minor project work during the academic year 2022-2023 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

Mrs.S.Lavanya
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.





Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The "Alcohol-Activated Engine Locking System" is a sophisticated and innovative project designed to enhance road safety by preventing individuals under the influence of alcohol from operating motor vehicles. This system employs cutting-edge technology to detect alcohol levels in a driver's breath and, if found exceeding permissible limits, automatically locks the vehicle's engine, rendering it immobile.

The core components of the system include a highly sensitive alcohol sensor, a microcontroller unit (MCU), and a motorized locking mechanism integrated with the vehicle's ignition system. The alcohol sensor utilizes advanced detection algorithms to accurately measure the concentration of alcohol in the driver's breath. The MCU processes this information in real-time and triggers the engine lock mechanism when alcohol levels surpass predefined safety thresholds.

To ensure user-friendly operation, the system incorporates a secure and intuitive interface that provides visual and audible warnings to the driver before initiating the engine lock. Additionally, the system is equipped with tamper-resistant features to prevent unauthorized circumvention.

CONCLUSION

In conclusion, implementing an alcohol-driven engine locking system is a crucial step towards enhancing road safety and reducing the incidents of alcohol-impaired driving. By integrating advanced technology that can accurately measure blood alcohol levels and prevent the vehicle from starting if the driver is intoxicated, we can significantly mitigate the risks associated with drunk driving.

This system not only acts as a deterrent to potential offenders but also serves as a proactive measure to protect innocent lives on the road. The social and economic costs of alcohol-related accidents are substantial, and a reliable alcohol drive engine locking system can contribute to the overall well-being of society.



A Minor Project Report

On

AUTOMATIC VEHICLE BOOKING SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.S.Lavanya

Assistant Professor/Department of AI

Submitted by

BOOBESHAN AC (927621BAD006)

HARISH SRIRAJ N (927621BAD014)

SHYAM B (927621BAD049)

SHREE ASWIN RAJHA RS (927621BAD051)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

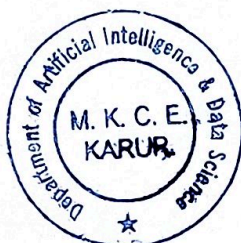
M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “AUTOMATIC VEHICLE BOOKING SYSTEM” is the Bonafide work of “BOOBESHAN A C(927621BAD006), HARISH SRIRAJ (927621BAD014), SHYAM B(927621BAD049), SHREE ASHWIN RAJHA R S(927621BAD051)” who carried out the minor project work during the academic year 2022-2023 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



Signature

Mrs.S.Lavanya
Assistant professor
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

Dr.N.M. Saravana Kumar
Head of the Department
Department of Artificial Intelligence,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

The primary objective of this project revolves around the detection of emotions conveyed by a speaker during verbal communication. The recognition of emotions, such as fear, anger, joy, sadness, or tiredness, is pivotal for understanding human-machine interactions and enhancing the quality of communication. The method employed involves analysing speech patterns and voice characteristics extracted from audio files to classify various emotions exhibited by the speaker.

In emotional states like fear, anger, or joy, speech tends to be characterized by heightened intensity, manifested through increased loudness and a faster pace. Additionally, these emotions often result in a broader and more varied pitch range. On the other hand, emotions like sadness or tiredness typically manifest in speech as slower and lower-pitched.

The input for this emotion recognition system consists of audio files capturing the speaker's voice, and the desired output involves the classification of the conveyed emotions. To achieve this, the project utilizes voice modulation, pitch analysis, and other relevant audio attributes to discern the emotional content embedded within the speech.

The significance of this endeavour extends to various applications, including but not limited to human-machine interaction enhancement. By implementing robust algorithms that can accurately identify emotions from audio inputs, the system can contribute to more intuitive and responsive technology interfaces. This has the potential to positively impact fields such as virtual assistants, customer service systems, and any other context where understanding and adapting to human emotions in real-time is crucial.

CONCLUSION

In conclusion, the project focuses on leveraging audio analysis techniques to detect emotions expressed through speech. The ultimate goal is to develop a reliable system capable of classifying a range of emotions based on voice patterns and audio attributes, with implications for advancing human-machine interaction across diverse applications.



M.KUMARASAMY
COLLEGE OF ENGINEERING

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution

Thalavapalayam, Karur – 639 113.



A Minor Project Report

On

HAND GESTURE RECOGNITION USING IOT

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA

SCIENCE

Under the guidance of

Ms A. Nithyasri

Assistant Professor, AI

Submitted by

ANUSUYA V(20BAI4001)

SHRI HARSINIMIRA G(20BAI4041)

SREE YAZHINIMIRA L M(20BAI4043)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND

DATA SCIENCE

M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

**M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)**

BONAFIDE CERTIFICATE

Certified that this project report "HAND GESTURE RECOGNITION USING IOT" is the Bonafide work of "ANUSUYA V (20BAI4001), SHRI HARSINIMIRA G (20BAI4041), SREE YAZHINIMIRA L M (20BAI4043)" who carried out the minor project work during the academic year 2022 - 2023 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.


SIGNATURE

Ms.A.NITHYASRI

ASSISTANT PROFESSOR

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113




SIGNATURE

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

ABSTRACT

Hand gesture recognition technology brought a new era to the artificial intelligence branch of human-computer interaction. This initiative will nevertheless provide a more natural and dynamic form of communication by the use of gestures. This proposed embedded system can be implemented in webcam that contains a room where anyone can utilize the light/fan automatically switched on/off by using some unique gesture. It is easily to manage all types of people. In the application is included an additional database of distinct gestures. In recent years, the gesture control technique has become a new developmental trend for many human-based electronics products. This technique let people can control these products more naturally, intuitively and conveniently.

CONCLUSION

Hand gesture recognition system provides us with an innovative, natural and user-friendly way of interaction with the computer which is more familiar to the human beings. In everyday life, physical gestures are a powerful means of communication. Hand gesture recognition addresses a fault in interaction systems. Controlling things by hand his more natural, easier, more flexible, and cheaper, and there is no need to fix problems caused by hardware devices, since none is required. Human gestures constitute a space of motion expressed by the body, face, hands. Among a variety of gestures, hand gesture is the most expressive and the most frequently used. It has been used as an alternative form to communicate with computers in an easy way. This kind of human-machine interfaces would allow a user to control a wide variety of devices through hand gestures. Most work in this research field tries to elude the problem by using markers, marked gloves or requiring a simple background. So, the great thing from this system is to automate all kind of electronic devices using hand gestures.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

TRANSPORT ATTENDANCE USING FACE DETECTION IN AN ORGANIZATION

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.P.VIDHYA

Assistant Professor, Department of AI

Submitted by

BARATHRAJ R -20BAI4005

DEEPAK D-20BAI4009

GOWTHAM M-20BAI4017

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “Transport attendance using Face detection in an organization” is the bonafide work of “BARATHRAJ R (20BAI4005), DEEPAK D (20BAI4009), GOWTHAM M (20BAI4017)” who carried out the minor project work during the academic year 2022 - 2023 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.


Signature

Mrs.P.VIDHYA,
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.




Signature

Dr.N.M.SARAVANA KUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.

ABSTRACT

It is the research illustrates the total attendance maintenance in the transportation system and this may change the way of maintaining the attendance report. This system works based on the face detection, infers the details about pick up time, drop time and location of the students. It can be maintained without any manpower requirement and its reporting is done based on day-to-day attendance on time.

It can send an alert notification to the parents and an organization authority. This reduces the risk of the management on monitoring the students transport activities on day-today basics. This proposed system can also send the where about of any students to their parents if that particular student has not gotten off the college/school bus in his usual/actual stop.

It can send an alert notification to the parents and an organization authority. This reduces the risk of the management on monitoring the students transport activities on day-today basics. This proposed system can also send the whereabouts of any students to their parents if that particular student has not gotten off the college/school bus in his usual/actual stop.

Problem Statement of this research paper is in school/institution bus, there is no proper maintenance of attendance, hence, there is a possibility for an unusual activity and anyone can pick up the children (kidnapping). Finding it hard to choose a mode of communication to ensure the safety of a kid. We can't able to locate them while dropping and picking up the students. There is no proper evidence about their dropping place as well as date and timing.

CONCLUSION

This project illustrates the total attendance maintain things in the entire transportation system and this may change the way of maintaining the transport attendance. This system of detection is working under the face detection and the picks and drop time and location of the students can be maintained without in required of any manpower and its reporting the regular day- today attendance on time. This reduces the risk of the management on monitoring the students transport activities on day-today basics.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

BLOOD DONOR SERVICE SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. R. STALINBABU

Assistant Professor/Department of AI

Submitted by

BABU R (20BAI4003)

CHANDEESHARAN B (20BAI4008)

RAGUL SA (20BAI4039)

AKILAN B (20BAI4301)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

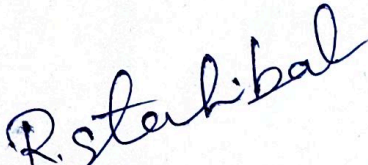
KARUR

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "BLOOD DONOR SERVICE SYSTEM" is the Bonafide work of "BABU R (20BAI4003), CHANDEESHARAN B (20BAI4008) , RAGUL SA(20BAI4039), AKILAN B(20BAI4301)" who carried out the minor project work during the academic year 2022-2023 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.


Signature

Mr.R.STALINBABU
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,Karur-639113.


Signature

Dr.N.M.SARAVANAKUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,Karur-639113.



ABSTRACT

This project is dedicated to the development of a comprehensive Blood Donor Management System, strategically designed to streamline the collation of donor information, catalog various blood groups available in each blood bank, and optimize the provision of assistance to patients in need. Serving as a pivotal link between blood donors and hospitals, the system aims to revolutionize the blood donation process by prioritizing efficiency and user experience, thereby refining the traditional approach to blood donor services. A primary focus of this initiative is the enhancement of the user experience. The system is meticulously crafted to provide a user-friendly interface for donors, blood banks, and healthcare providers. Intuitive features and streamlined processes ensure a seamless and positive engagement, fostering a culture of voluntary blood donation and contributing to the overall efficiency of the healthcare system. Equally important is the project's commitment to data privacy. Robust security measures have been implemented to safeguard donor information and mitigate the potential misuse of sensitive data, including addressing concerns related to human trafficking. By placing a premium on data security, the system not only complies with ethical standards but also instills confidence among users, reinforcing the integrity of the entire blood donation ecosystem. In conclusion, this project represents a significant leap forward in healthcare technology, promising to transform blood donor services by incorporating advanced features and a heightened focus on data security. The envisioned system holds the potential to create a safer and more efficient environment for blood donation, ultimately contributing to elevated patient care and a more resilient healthcare infrastructure.

CONCLUSION

In conclusion, the development and implementation of the Integrated Blood Donor Management System mark a pivotal advancement in healthcare technology, with a multifaceted approach aimed at enhancing patient care, user experience, and data security. The project successfully addresses the critical need for a streamlined and efficient blood donation process by centralizing donor information and cataloging the availability of different blood groups in each blood bank. The emphasis on user experience reflects a commitment to making the system accessible and user-friendly for donors, blood banks, and healthcare providers. Through intuitive interfaces and streamlined processes, the project seeks to foster a positive environment for voluntary blood donation, thereby contributing to the overall efficiency and effectiveness of the healthcare system. Ultimately, the Integrated Blood Donor Management System stands as a beacon of progress, offering a safer, more efficient, and user-centric approach to blood donor services. This project's success not only contributes to the optimization of healthcare processes but also underscores the importance of technology in shaping a secure and compassionate healthcare ecosystem. As the system moves towards implementation, its potential impact on patient care and the promotion of voluntary blood donation is poised to be a significant milestone in the healthcare industry.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

J.A.R.V.I.S-THE VIRTUAL ASSISTANT

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Dr.N.M SARAVANAKUMARAN

Prof & Head, AI

Submitted by

SUHAS.N (20BAI4047),

BHARADWAJ. S (20BAI4006),

SURYA MOORTHY.U (20BAI4048),

ASWIN KUMARAN.M (20BAI4002)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639 113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "J.A.R.V.I.S – VIRTUAL ASSISTANT FOR THE DIVYANGJAN" is the Bonafide work of "BHARADWAJ. S (20BAI4006), SUHAS. N (20BAI4047), ASWIN KUMARAN.M(20BAI4002), SURYA MOORTHY.U(20BAI4048)" who carried out the minor project work during the academic year 2022-2023 under our supervision. Certified further, that to the best of our knowledge the work reported hereindoes not form part of any other minor project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate


Signature

DR N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI&DS

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113




Signature

DR N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI&DS

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

ABSTRACT

J.A.R.V.I.S is a virtual voice assistant, which is created to help blind people. The biggest challenge for a blind person, especially one with complete loss of vision, is to navigate around places. Blind people roam easily around their house without any help because they know the position of everything in the house. Our project helps blind people to navigate around places by detecting the objects before them and instructing them. This intelligent virtual assistant is a software agent that can perform tasks or services for an individual based on commands or questions. A voice assistant is a digital assistant that uses voice recognition, language processing algorithms, and voice synthesis to listen to specific voice commands and return relevant information or perform specific functions as requested by the user.

CONCLUSION

To elucidate, it can ingeminate that our project greatly helps blind people to navigate themselves around distinct environments, and there is no need for any physical contact to communicate with the virtual assistant. Furthermore, it can work as a personal assistant and diminish the burden of the challenged people.

The uniqueness of the project:

- Unlike other virtual assistants that exist today, J.A.R.V.I.S mainly focuses on helping blind people to walk without any human aid.
- The main feature of J.A.R.V.I.S is it performs object detection to locate different objects in realtime.
- Compose mail, letter, and message through voice command.

A Minor Project Report

On

**ROAD ACCIDENTS CASUALTY ELIMINATOR &
RESCUER SYSTEM (RACERS)**

Submitted in partial fulfilment of requirements for the

award of the Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms.A.NITHYASRI

Assistant Professor, AI

Submitted By

BOOMIHASRI P (20BAI4007)

DEEPIKA K (20BAI4011)

MAHALAKSHMEE B (20BAI4028)

SWETHA K (20BAI4049)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

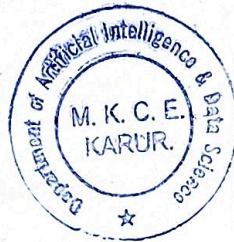
M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “ROAD ACCIDENTS CASUALTY ELIMINATOR & RESCUER SYSTEM (RACERS)” is the Bonafide work of “BOOMIHASRI P (20BAI4007), DEEPIKA K (20BAI4011), MAHALAKSHMEE B (20BAI4028), SWETHA K (20BAI4049)” who carried out the minor project work during the academic year 2022 - 2023 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.


SIGNATURE




SIGNATURE

Dr.N.M.SARAVANAKUMAR
HEAD OF THE DEPARTMENT
Department of AI&DS
M.Kumarasamy college of Engineering,
Thalavapalayam, Karur-639113

A. NITHYASRI
ASSISTANT PROFESSOR
Department of AI&DS
M.Kumarasamy college of Engineering,
Thalavapalayam, Karur-639113

ABSTRACT

The use of vehicles has doubled because of the population boom and so have the number of accidents. When a person drives his or her car, met with an accident, there is a chance that the individual may suffer from a serious injury or expire instantaneously and there is no one around him/her to help. Well, this system is a solution to the problem. The system acts as an **Accident Locator** system that gathers and sends this vehicle information that met with an accident, and conveys it to the nearest control room, Primary Health Centers and for the person preferred emergency Contacts. For this the user vehicle is fixed a system which users GPS forward the information as a message includes the Persons Heart rates, location, Date, and time. The objective of developing the system is to minimize the time to identify the location of the accident with heart rates of the person to minimize the time to provide with emergency services.

CONCLUSION

The proposed system is concerned with accident detection. The Arduino is the framework's heart, aiding the exchange of data to the different gadgets in the framework. At the point when an accident happens, the vibration sensor actuates, and the information is shipped off to the enrolled number. The area can be sent through a global positioning framework utilizing GPS to cover the topographical directions of the area. A vibration sensor, which is a significant module in the framework, can identify an accident.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

SENTIMENTAL ANALYSIS IN SOCIAL MEDIA USING NLP

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.S.Lavanya

Assistant Professor/Department of AI

Submitted by

DIVESH IYYAPAN S(20BAI4013)

MUTHU R(20BAI4031)

SAIKARTHICK M(20BAI4040)

TAMIL SELVAN M(20BAI4050)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “SENTIMENTAL ANALYSIS IN SOCIAL MEDIA USING NLP” is the bonafide work of “DIVESH IYYAPAN S (20BAI4013), MUTHU R (20BAI4031), SAIKARTHICK M (20BAI4040) and TAMIL SELVAN M (20BAI4050)” who carried out the minor project work during the academic year 2022-2023 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.


Signature

Mrs.S.LAVANYA,

Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,
Karur-639113.




Signature

Dr.N.M.SARAVANA KUMAR,

Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

This Project analyzes the sentiments of users by using their tweets. Analyzing the emotion of users will help in personalizing services like product recommendation systems. The micro-blogging platform used for this project is Twitter which has large number users and it is helpful for analyzing public tweets. This project works by taking twitter user id as input, then analyzes tweets till current tweet and classify their emotions based on the tweets. This is enhanced by using Natural Language Processing in extracting main objectives of the sentences.

CONCLUSION

The tweets have been successfully classified with the help of sentimental analysis and Natural Language Processing. The emotions such as joy, anticipation, trust, positive, negative, fear, surprise, sadness, anger and disgust are analyzed and their corresponding counts are visualized using horizontal bar chart. Naïve Bayes algorithm is used to classify the tweets and tweepy package is used to extract live data from Twitter. NRCLex package is used to find the emotion of the tweet by analyzing the each and every word in it.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.



A Minor Project Report

On

OBJECT DETECTION IN SURVEILLANCE

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

DEEPAKK V V - 20BAI4010

HARIHARAN M - 20BAI4018

NANDHA KUMAR S - 20BAI4032

SREMAN RAJA P - 20BAI4044

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND

DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “**OBJECT DETECTION IN SURVEILLANCE**” is the Bonafide work of “**DEEPAKK V V (20BAI4010), HARIHARAN M(20BAI4018), NANDHA KUMAR S (20BAI4032), SREMAN RAJA P(20BAI4044)**” who carried out the minor project work during the academic year 2022-2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



Signature

Mr.P.SURESH

ASSISTANT PROFESSOR

Department of Artificial Intelligence

and Data Science,

M.Kumarasamy college

of Engineering, Thalavapalayam,

Karur-639113.



Signature

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of Artificial Intelligence

and Data Science,

M. Kumarasamy College

of Engineering, Thalavapalayam,

Karur-639113.



ABSTRACT

The need for reliable and effective surveillance systems is growing, making the development of sophisticated object detection methods essential. This research uses deep learning techniques to provide a novel approach to object detection in surveillance circumstances. The suggested solution improves the precision and effectiveness of recognizing and tracking things in real-time surveillance footage by fusing the strength of convolutional neural networks (CNNs) with cutting-edge object detection techniques. Furthermore, we propose a novel post-processing module that refines the detected object boundaries and improves localization accuracy. By incorporating temporal information and utilizing object tracking algorithms, our system enhances the robustness of surveillance applications, particularly in scenarios where objects may move across multiple frames.

CONCLUSION

This work contributes to the advancement of object detection in surveillance applications by combining deep learning techniques, pre-trained CNNs, and sophisticated object detection algorithms. The proposed framework not only improves the accuracy of object identification but also enhances the system's adaptability to challenging surveillance conditions, making it a valuable tool for enhancing security and situational awareness in various environments.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

DISEASE PREDICTION SYSTEM

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

in

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs. Vidhya P

Assistant Professor, Department of AI

Submitted by

DINESH KUMAR S (20BAI4012)

MOHAMED MUZAMMIL A (20BAI4029)

NAVEEN M (20BAI4034)

SRIHARAN T (20BAI4046)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “DISEASE PREDICTION SYSTEM” is the Bonafide work of “DINESH KUMAR S(20BAI4012), MOHAMED MUZAMMIL A(20BAI4029), NAVEEN M(20BAI4034), SRIHARAN T(20BAI4046)” who carried out the minor project work during the academic year 2022-2023 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.


Signature

Mrs.VIDHYA P

Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.




Signature

Dr.N.M.SARAVANA KUMAR

Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.

ABSTRACT

Disease Prediction is the system that is used to predict the diseases by identifying and classifying the symptoms of the disease. The system processes the symptoms provided by the user as input and gives the output as the probability of the disease. This can be achieved by using Binary Classification and Support Vector Machine. This model is used to predict disease such as heart disease and diabetes disease. Diabetes is a chronic disease that continues to be a significant and global concern since it affects the entire population's health. It is a metabolic disorder that leads to high blood sugar levels and many other problems such as stroke, kidney failure, and heart and nerve problems. Several researchers have attempted to construct an accurate diabetes prediction model over the years. Heart disease, alternatively known as cardiovascular disease, encases various conditions that impact the heart and is the primary basis of death worldwide over the span of the past few decades. It associates many risk factors in heart disease and a need of the time to get accurate, reliable, and sensible approaches to make an early diagnosis to achieve prompt management of the disease. Data mining is a commonly used technique for processing enormous data in the healthcare domain. The main goal of the model is to achieve a stable and accuracy above 90% with KNN Classifier.

CONCLUSION

The main aim of this disease prediction system is to predict the disease based on the symptoms. This system takes the symptoms of the user from which he or she suffers as input and generates final output as a prediction of disease. Average prediction accuracy probability of 100% is obtained. Disease Predictor was successfully implemented using the grails framework. This system gives a user- friendly environment and easy to use.

As the system is based on the web application, the user can use this system from anywhere and at any time. In conclusion, for disease risk modeling, the accuracy of risk prediction depends on the diversity feature of the hospital data.

This systematic review aims to determine the performance, limitations, and future use of Software in health care. Findings may help inform future developers of Disease Predictability Software and promote personalized patient care. The program predicts Patient Diseases. Disease Prediction is done through User Symbols.



A Minor Project-3 Report

On

SMART ASSISTANT REPLICA

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms. A. NITHYASRI
Assistant Professor, AI

Submitted by

DEEPAKKUMAR .M - 20BAI4302

JANA.M. G - 20BAI4021

KARTHIKEYAN. L - 20BAI4303

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous)
KARUR – 639113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

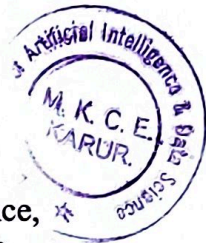
BONAFIDE CERTIFICATE

Certified that this project report “SMART ASSISTANT REPLICA ” is the Bonafide work of “JANA M G (20BAI4021), DEEPAKKUMAR M (20BAI4302) and KARTHIKEYAN L (20BAI4303)” who carried out the minor project work during the academic year 2022-2023 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


Signature

Ms.A.NITHYASRI

Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.




Signature

Dr.N.M.SARAVANA KUMAR

Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.

ABSTRACT

In this modern era, day-to-day life became smarter and interlinked with technology. It is already know some voice assistance like Google, Siri, etc. Our virtual voice assistance system can act as a daily basics schedule reminder, note writer, calculator, and search tool. Our project works on voice input and provides output through voice and displays the text on the screen. The main idea of our voice assistance is to make people smarter, give instant computed results. The voice assistance takes the voice input through our microphone (Bluetooth and wired microphone) and it converts our voice into machine understandable language to produce the required solutions which are asked by the user. This assistance connects with the World Wide Web to provide results that the user has questioned. By using Natural Language Processing algorithm, we are making communication in machine understandable manner. And we created the assistance as web application for easy to access anywhere in this world with any devise so it so convenient to monitor their children's and our assistance use the parents' their native language so it's more convenient for which one who don't now English, and our website the students details can be downloaded as pdf file so it will be easy to view online if they saved those file later.

CONCLUSION

The Proposed system is to created a web application to help the parents communicate with the website easy and comfortable native language to get the details of the student. To improve the study and career of the students and it also helps to notify parents if any events and functions are done in the organization. Also, the data are the students are being displayed as pdf file format using voice commands and the replica can replay back to the parents as their native language and the teacher's login page is created to upload the pdf files to the corresponding student's profile for easy accessing database



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

Current Emotion and Personality Trait Detection cum Virtual Friend

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

in

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Dr. N.M.SARAVANAKUMAR,
Head of the Department,
Artificial Intelligence.

Submitted by

KIRUTHIKA S (20BAI4025)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “Current Emotion and Personality Trait Detection cum Virtual Friend” is the Bonafide work of “KIRUTHIKA S(20BAI4025)” who carried out the minor project work during the academic year 2022-2023 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.


Signature

Dr.N.M.SARAVANA KUMAR ☆

Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.




Signature

Dr.N.M.SARAVANA KUMAR

Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.

ABSTRACT

This project demonstrates the prediction of personality traits and the current emotions of a person using text, face, image and voice recognition. For Personality Trait detection we are using CV Analysis, Twitter Data, Handwriting, written text and Personality Quiz. For Current Emotion and Stress level we are using Sentimental Analysis, Emotions using photo, group photo and uploaded video and Emotion Detection Using Voice Recognition. And it provides suggestions based on their emotions. The Virtual friend feature adds Guide mode, Child mode, Special Mode, Emergency Mode, Check mode, Family Circle and assistant features with chatbot to it. On the whole it understands emotions, responds to emotions and guides a person, a special person (Blind or Deaf) and old person like a virtual friend and generates reports at the end of each day to make them self analyze their Screen Time.

CONCLUSION

Recognition are used to assess current emotional and stress levels. It also makes recommendations based on their emotions. Guide mode, Child mode, Special Mode, Emergency Mode, Check mode, Family Circle, and Assistant features with chatbot are added to the Virtual Friend feature.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

SMART SHOE USING AUDIO

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. K. Jeya Genesh Kumar

Assistant Professor/Department of AI

Submitted by

BARATHKUMAR J K (20BAI4004)

HARI PRASATH S (20BAI4019)

JAGATHRATCHAKAN S (20BAI4020)

KRITHIK T (20BAI4027)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

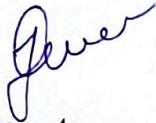
KARUR – 639 113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "SMART SHOE USING AUDIO" is the Bonafide work of "BARATHKUMAR J K (20BAI4004), HARI PRASATH S (20BAI4019), JAGATHRATCHAKAN S (20BAI4020), KRITHIK T (20BAI4027)" who carried out the minor project work during the academic year 2022-2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



Signature

Mr. K. JEYAGANESH KUMAR
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M. Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.



Signature

Dr. N. M. SARAVANAKUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M. Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.



ABSTRACT

In a world saturated with screens and notifications, the human foot silently whispers untold stories. Smart shoe by Audio taps into this hidden narrative, transforming every step into a symphony of data, unveiling a new paradigm of user experience. Forget bulky trackers and sterile metrics; this is where intuition meets innovation, where your shoes listen, learn, and adapt, weaving movement into a captivating tapestry of insights and experiences. Imagine running down a bustling city street, not with robotic beeps guiding your pace, but with the exhilarating crescendo of a virtual soundscape unfolding around you. Each footfall triggers a dynamic response, the rhythmic tap on pavement morphing into the pounding drums of a chase scene, the click-clack of crosswalks transforming into the thrilling soundtrack of an urban adventure. This is augmented reality reimagined, not through intrusive screens, but through the immersive power of sonic storytelling. But Smart Shoe by Audio is more than just a digital playground. It's a silent guardian, its audio sensors attuned to your environment. The sudden screech of brakes triggers a subtle warning chime, a misplaced footfall whispers a gentle correction, guiding you back to perfect form before injury can steal your stride. No cameras, bulky straps, just the innate song of your journey transformed into a shield of protection and awareness. With every step, your shoes analyze, guide, and celebrate your progress, transforming data into a personalized symphony of self-improvement. Smart Shoe by Audio is not just a shoe; it's a portal to a world where movement and magic intertwine. It's a canvas painted with sound, a whisper revealing untold possibilities.

CONCLUSION

Forget clunky trackers and rigid stride trackers. Smart Shoe by audio reimagines smart shoes through sound. By analyzing audio generated during activities like walking, running, and jumping, we unlock a wealth of data to customize the user experience. Precise gait analysis, advanced safety features through audio cues, and immersive augmented reality experiences are just a glimpse into the future Smartshoe by audio can create. This project harnesses the power of audio to elevate smart shoes beyond mere footwear, transforming them into personal coaches, safety companions, and gateways to interactive worlds. This data becomes your coach, whispering insights into your gait, stride, and form. Imagine hearing the satisfying crunch of a perfect heel strike, the encouraging whoosh of a powerful push-off, the gentle correction before a misstep.



M.KUMARASAMY
COLLEGE OF ENGINEERING

NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

FRUIT RIPENESS DETECTION

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. K. Jeya Genesh Kumar

Assistant Professor/Department of AI

Submitted by

GANESH C (20BAI4014)

KARTHIK V (20BAI4023)

SRIDHARAN R (20BAI4045)

VISHUVA V S (20BAI4052)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639 113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "FRUIT RIPENESS DETECTION" is the Bonafide work of "GANESH C(20BAI4014), KARTHIK V(20BAI4023), SRIDHARAN R(20BAI4045), VISHUVA V S(20BAI4052)" who carried out the minor project work during the academic year 2022-2023 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.


Signature

Mr. K.JEYAGANESH KUMAR
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.


Signature

Dr.N.M.SARAVANAKUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.

ABSTRACT

Efficient fruit ripeness detection plays a crucial role in the agricultural and food processing industries, ensuring optimal quality control and reducing wastage. This paper presents a novel approach to fruit ripeness detection using Convolutional Neural Networks (CNN) tailored for a variety of fruits in production lines. The proposed system utilizes CNNs, a deep learning architecture known for its effectiveness in image recognition tasks, to analyze fruit images captured by cameras installed along production lines. Through extensive training on labeled datasets containing images of different fruit varieties at various stages of ripeness, the CNN learns to accurately classify fruits based on their ripeness level.

Key to the success of this approach is the development of a comprehensive dataset comprising diverse fruit types, including but not limited to apples, bananas, oranges, and strawberries, each exhibiting distinct ripeness characteristics. This dataset enables the CNN to generalize well across different fruit varieties, ensuring robustness and reliability in real-world production environments. Upon deployment, the fruit ripeness detection system seamlessly integrates into existing production lines, providing real-time feedback on the ripeness status of individual fruits. This information empowers producers to make informed decisions regarding sorting, grading, and packaging processes, thereby optimizing efficiency and minimizing post-harvest losses. Furthermore, the scalability of the proposed solution allows for easy adaptation to new fruit varieties and production setups, ensuring versatility and future-proofing against evolving industry demands.

CONCLUSION

In this project, we have demonstrated the effectiveness of employing Convolutional Neural Networks (CNNs) for fruit ripeness detection across a variety of fruit types within production lines. By leveraging deep learning techniques, we have addressed a critical need in the agricultural and food processing industries for accurate and efficient quality control.

Through the development and utilization of a diverse dataset encompassing multiple fruit varieties at various stages of ripeness, our CNN-based system exhibits robustness and versatility. The model's ability to generalize across different fruits ensures reliable performance in real-world production environments, facilitating informed decision-making for sorting, grading, and packaging processes.

The successful integration of our fruit ripeness detection system into existing production lines underscores its practicality and scalability. By providing real-time feedback on the ripeness status of individual fruits, our solution enables producers to optimize resource allocation, minimize waste, and enhance overall efficiency. Looking ahead, the potential for further advancements in deep learning techniques offers exciting opportunities for refinement and expansion of our approach. Future research may focus on improving the model's accuracy and speed, as well as extending its capabilities to accommodate additional fruit varieties and evolving industry requirements.

In conclusion, the application of CNNs for fruit ripeness detection represents a significant advancement in quality control practices within the agricultural and food processing sectors. By harnessing the power of artificial intelligence, our solution contributes to the promotion of sustainable practices, increased productivity, and enhanced product quality throughout the production cycle.



M.KUMARASAMY
COLLEGE OF ENGINEERING

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

DISEASE PREDICTION IN PLANTS USING DEEP LEARNING

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. P. Suresh

Assistant Professor/Department of AI

Submitted by

PRADEKSHA R K (20BAI4035)

PRADHISHA N (20BAI4036)

PRIYADHARSHINI P (20BAI4037)

SNEKA N (20BAI4042)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639 113

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "DISEASE PREDICTION IN PLANTS USING DEEP LEARNING" is the Bonafide work of "PRADEKSHA R K (20BAI4035), PRADHISHA N (20BAI4036), PRIYADHARSHINI P (20BAI4037), SNEKA N (20BAI4042)" who carried out the minor project work during the academic year 2022-2023 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.


Signature

Mr. P. SURESH

Assistant Professor,

Department of Artificial Intelligence
and Data science,

M.Kumarasamy College of Engineering,

Thalavapalayam, Karur-639113.


Signature

Dr.N.M. SARAVANA KUMAR

Head of the Department

Department of Artificial Intelligence and Data
science,

M.Kumarasamy College of Engineering,

Thalavapalayam, Karur-639113.



ABSTRACT

The objective of this project is to create a Deep Learning Algorithm that will assist farmers in identifying plant diseases by analyzing images of the affected plant parts (e.g. leaves). The proposed system will be able to determine the type of disease that has affected the plant. Farmers can avoid financial loss by detecting plant illness at an early stage with our system. In our project we are taking a leaf as a sample to examine the disease affected in the plant. The affected part can be easily identified by change in color or shape. And sudden water lose can also causes wilting of leaf. And we will collect all those diseases affected leaves to predict the disease. Then using CNN, we will predict the type of disease affected to the plant. After predicting the disease, we are using Arduino UNO to send commands to the pumping motor. Then, the pumping motor starts to spray the fertilizers which cures the plant disease.

CONCLUSION

In conclusion, the imperative to safeguard plant health and prevent substantial crop losses due to various pathogenic organisms underscores the significance of proactive measures. Organic fertilizers are a key strategy, enhancing soil health and bolstering plant resistance. The project, rooted in a deep understanding of infection mechanisms, aims to deliver cutting-edge disease predictions through an accurate website. The holistic approach emphasizes proper watering practices, eco-friendly fertilizers, and adequate sunlight exposure to maintain plant vitality. By integrating these components, the project not only aims to prevent plant diseases but also empowers farmers with actionable insights, including precise disease identification and accuracy values. This contributes to the advancement of sustainable agriculture and crop management.



A Minor Project Report

On

AJNA – THE SMART READER

Submitted in partial fulfilment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. K. JEYA GANESH KUMAR

Submitted by

GOKUL D - 20BAI4016

KISHORE D - 20BAI4026

MOSHITH K S - 20BAI4030

VIKRAMA PANDIAN U - 20BAI4051

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous)

KARUR – 639 113

NOV-2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "AJNA – THE SMART READER" is the Bonafide work of "GOKUL D (20BAI4016), KISHORE D (20BAI4026), MOSHITH K S (20BAI4030), VIKRAMA PANDIAN U (20BAI4051)" who carried out the minor project work during the academic year 2022-2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature

Mr. K. JEYA GANESH KUMAR
HEAD OF THE DEPARTMENT
Department of Artificial Intelligence
And Data Science
M.Kumarasamy college
Of Engineering
Thalavapalayam,
Karur-639113.


Signature

Dr.N.M.SARAVANAKUMAR
HEAD OF THE DEPARTMENT
Department of Artificial Intelligence
and Data Science
M. Kumarasamy College
of Engineering
Thalavapalayam,
Karur-639113.



ABSTRACT

AJNA - The Smart Reader is an innovative gadget specifically designed to address the challenges faced by visually impaired individuals. The prevalence of visual disabilities often restricts individuals from accessing written information, making traditional means such as written transcripts inaccessible. While Braille serves as a tactile form of communication, it is not universally available in all environments. Recognizing this gap, our project focuses on providing an effective system for the visually impaired community through the implementation of cutting-edge technologies. The AJNA Smart Reader, a revolutionary tool for the visually impaired, integrates advanced image processing and text detection technologies to enable real-time interpretation of live text in their environment. Developed with a focus on accessibility, the device combines app development expertise to create a user-friendly interface, allowing seamless interaction with the system. With a high-resolution camera and cutting-edge algorithms for image processing, the Smart Reader accurately captures and analyzes text, regardless of font, size, or orientation. Through the integration of specific AI assistants, speech generation technology transforms the identified text into spoken words, providing immediate auditory feedback.

CONCLUSION

In conclusion, AJNA - The Smart Reader stands as a testament to the power of technology in addressing the challenges faced by visually impaired individuals. By seamlessly integrating image processing, text detection, speech generation and recognition, AI assistance, and user-friendly app development, our innovative gadget becomes a lifeline for those with visual disabilities. AJNA not only acts as a third eye, enabling the live reading of text in the environment, but also serves as a personal AI assistant, providing real-time support and information. The significance of this project lies in its commitment to inclusivity, ensuring that visually impaired individuals can access and engage with written information in a world that predominantly relies on visual communication.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.



A Minor Project Report

On

**SMART SELF SURVEILLANCE SYSTEM BY UTILIZING
GPS & GSM**

Submitted in partial fulfilment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.S.LAVANYA

Assistant Professor, AI

Submitted by

KEERTHIGA S - 20BAI4024

JEEVITHA K - 20BAI4022

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous)

KARUR

NOV 2022

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "Smart Self Surveillance System by Utilizing GPS & GSM" is the Bonafide work of KEERTHIGA S (20BAI4024), JEEVITHA K (20BAI4022) who carried out the minor project work during the academic year 2022 - 2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.

SIGNATURE

Mrs.S.LAVANYA

Assistant Professor,
Department of Artificial Intelligence
And Data Science,
M.Kumarasamy college
of Engineering,
Thalavapalayam, Karur-639113.

SIGNATURE

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT
Department of Artificial Intelligence
and Data Science,
M. Kumarasamy College
of Engineering,
Thalavapalayam, Karur-639113.



ABSTRACT

The citizens of India, have to take up some fundamental duties to contribute towards bringing an order to ensure dignity and respect for women so that she can also enjoy her human rights and fundamental rights with sense of pride, freedom and confidence. To ensure this, the society must work together to give an edge to the solution. For example, women in the society must be provided with devices with latest technology which provides her location using GPS technology to a central control room of police or send messages of her address to nearby locations.

People are worrying about their security in this current world. We can't change the society totally but we can increase the security of people by using modern technology. The proposed system for people consists of a wearable safety device which operates automatically. Here the security for the people is provided by the continuous monitoring of the pulse rate. The pulse rate are detected by using sensors. GPS is used for tracking the location. The message is also forwarded alongwith the location details to the existing emergency contacts.

CONCLUSION

The Smart Self Surveillance System promotes autonomy and independence by empowering users to take control of their personal security. The system's compatibility with smartphones and other devices further enhances its accessibility, making it a versatile solution for individuals from different walks of life. The Smart Self Surveillance System represents a cutting-edge solution that harnesses the power of GPS and GSM technologies to provide an effective and user-friendly means of personal security. As technology continues to evolve, the system serves as a testament to the potential for innovative solutions to address the growing concerns of personal safety and surveillance.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

COGNITIVE HELMET FOR BIKE RIDERS

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. K. Jeyaganesh Kumar

Assistant Professor/Department of AI

Submitted by

GAYATHRI V R(20BAI4015)

NANDHINI A(20BAI4033)

PRIYANKA N(20BAI4038)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR

Nov 2022

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report report "COGNITIVE HELMET FOR BIKE RIDERS" is the Bonafide work of GAYATHRI V R (20BAI4015), NANDHINI A(20BAI4033), PRIYANKA N(20BAI4038)" who carried out the minor project work during the academic year 2020-2021 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.


Signature

Mr. K. JEYAGANESH KUMAR
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.


Signature

Dr.N.M.SARAVANA KUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.



ABSTRACT

A recent study claims that participants wearing a bike helmet behave riskier in a computer-based risk task compared to control participants without a bike helmet. We hypothesized that wearing a bike helmet reduces cognitive control over risky behavior. Nowadays, For the increased quantity of bike riders , occurrence of accident also increased . Due to the accidents, Some of the people lose their hands or legs even some of them lose their lives. Even some of the people experience the hardship of living without existence. One of the major reason is that people are not wearing helmets while they ride in bike. Another major reason is "Drunken and Drive". Suppose an accident has been occurred, we are not sure that person who met with accident gets proper medical assistants. Hence, to get rid of this accident we introduced a cognitive helmet with the features like starting key, alcohol, accident, fire and theft detection. The project has been proposed with a helmet that includes 5 features. They are a key starter, alcohol, accident, fire, and theft detection. In the feature starting key, there's an added feature, if the owner takes the helmet it will work as the starting key. But, for user friendly, if the helmet is taken by another one, it will work as an intimation key for the owner. It gives more security to the bike owner. The feature of alcohol detection contains 3 parts. If the alcohol is normal the bike goes in a normal way, if the alcohol rate is average it will give a buzzer sound, if the alcohol rate is high, the information will be forwarded to one of the relations. If the rate is too much, the bike will go to stop mode. For accident detection, the information will be forwarded to one of the relations or it will be forwarded to a nearby hospital. For Fire detection, a particular frequency was set for the fire quantity. If it is in high temperature, it will be intimated to the emergency number. Theft detection is also done by using the forwarding information by the detection of the fingerprint.

CONCLUSION

Any car collision that takes place on a public route qualifies as a traffic accident. The idea behind this project's development was to benefit society in some way. Two-wheeler accidents are on the rise and claim numerous lives each year. Our project's primary goal is to create a safety system that is integrated with a cognitive helmet and a cognitive bike to lower the likelihood of two-wheeler accidents. If an accident occurs, there are no people nearby to warn the parents or the ambulance. This is an everyday occurrence, thus the concept of coming up with a solution to it led to the idea of informing people about accidents as soon as feasible and in a timely manner. The three main applications that the cognitive helmet focuses on are useful in our daily lives. First and foremost, if we are not wearing a helmet, the bike's ignition will not turn on. Additionally, donning this smart helmet makes it impossible to drive when intoxicated. The bike won't start if the rider is intoxicated. Accident detection is the third application. Additionally, another 2 features are included theft detection and fire detection. For theft detection, finger print sensor is used if the fingerprint is mismatched then the message passes to the owner of the bike so that the theft can be decreased. For fire detection, if any fire accident occurs, the temperature sensors detect and turn off the engine. The system designed provides safety of the riders, in case of accidents it will notify the registered contact and the location of the accident provides a timely safety measure. This also detects the consumption of alcohol and prevents drink and drive cases. This also ensures the person wears the helmet mandatorily. This also detects the theft and fire accidents in bike.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.



A Minor Project Report

On

HAND GESTURE RECOGNITION USING IOT

Submitted in partial fulfilment of requirements for the reward the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms.A.Nithyasri

Assistant Professor/AI

Submitted by

ANUSUYA V(20BAI4001)

SHRI HARSINIMIRA G(20BAI4041)

SREE YAZHINIMIRA L M(20BAI4043)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

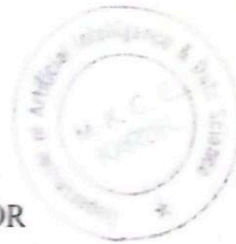
BONAFIDE CERTIFICATE

Certified that this project report "HAND GESTURE RECOGNITION USING IOT" is the Bonafide work of "ANUSUYA V (20BAI4001), SHRI HARSINIMIRA G (20BAI4041), SREE YAZHINIMIRA L M (20BAI4043)" who carried out the minor project work during the academic year 2022-2023 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.


SIGNATURE

Ms.A.NITHYASRI
ASSISTANT PROFESSOR

Department of AI,
M.Kumarasamy college of Engineering,
Thalavapalayam, Karur-639113




SIGNATURE

Dr.N.M.SARAVANAKUMAR
HEAD OF THE DEPARTMENT

Department of AI,
M.Kumarasamy college of Engineering,
Thalavapalayam, Karur-639113

ABSTRACT

Hand gesture recognition technology brought a new era to the artificial intelligence branch of human-computer interaction. This initiative will nevertheless provide a more natural and dynamic form of communication by the use of gestures. This proposed embedded system can be implemented in webcam that contains a room where anyone can utilize the light/fan automatically switched on/off by using some unique gesture. It is easily to manage all types of people. In the application is included an additional database of distinct gestures. In recent years, the gesture control technique has become a new developmental trend for many human-based electronics products. This technique let people can control these products more naturally, intuitively and conveniently.

CONCLUSION

Hand gesture recognition system provides us with an innovative, natural and user- friendly way of interaction with the computer which is more familiar to the human beings. In everyday life, physical gestures are a powerful means of communication. Hand gesture recognition addresses a fault in interaction systems. Controlling things by hand his more natural, easier, more flexible, and cheaper, and there is no need to fix problems caused by hardware devices, since none is required. Human gestures constitute a space of motion expressed by the body, face, hands. Among a variety of gestures, hand gesture is the most expressive and the most frequently used. It has been used as an alternative form to communicate with computers in an easy way. This kind of human-machine interfaces would allow a user to control a wide variety of devices through hand gestures. Most work in this research field tries to elude the problem by using markers, marked gloves or requiring a simple background. So, the great thing from this system is to automate all kind of electronic devices using hand gestures.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

Transport attendance

using Face detection in an organization

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.P.VIDHYA

Assistant Professor/Department of AI

Submitted by

BARATHRAJ R -20BAI4005

DEEPAK D-20BAI4009

GOWTHAM M-20BAI4017

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "Transport attendance using Face detection in an organization" is the bonafide work of "BARATHRAJ R (20BAI4005), DEEPAK D (20BAI4009), GOWTHAM M (20BAI4017)" who carried out the minor project work during the academic year 2022-2023 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.


Signature

Mrs.P.VIDHYA,

Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,
Karur-639113.




Signature

Dr.N.M.SARAVANA KUMAR,

Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,
Karur-639113.

ABSTRACT

It is the research illustrates the total attendance maintenance in the transportation system and this may change the way of maintaining the attendance report. This system works based on the face detection, infer the details about pick up time, drop time and location of the students. It can be maintained without any manpower requirement and its reporting is done based on day-to-day attendance on time.

It can send an alert notification to the parents and an organization authority. This reduces the risk of the management on monitoring the students transport activities on day-today basics. This proposed system can also send the where about of any students to their parents if that particular student has not gotten off the college/school bus in his usual/actual stop.

It can send an alert notification to the parents and an organization authority. This reduces the risk of the management on monitoring the students transport activities on day-today basics. This proposed system can also send the whereabouts of any students to their parents if that particular student has not gotten off the college/school bus in his usual/actual stop.

Problem Statement of this research paper is in school/institution bus, there is no proper maintenance of attendance, hence, there is a possibility for an unusual activity and anyone can pick up the children (kidnapping). Finding it hard to choose a mode of communication to ensure the safety of a kid. We can't able to locate them while dropping and picking up the students. There is no proper evidence about their dropping place as well as date and timing.

CONCLUSION

This project illustrates the total attendance maintain things in the entire transportation system and this may change the way of maintaining the transport attendance. This system of detection is working under the face detection and the picks and drop time and location of the students can be maintained without in required of any manpower and it's reporting the regular day- today attendance on time. This reduces the risk of the management on monitoring the studentstransport activities on day-today basics.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

BLOOD DONOR SERVICE SYSTEM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. R. STALINBABU

Assistant Professor/Department of AI

Submitted by

BABU R (20BAI4003)

CHANDEESHARAN B (20BAI4008)

RAGUL SA (20BAI4039)

AKILAN B (20BAI4301)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR - 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "BLOOD DONOR SERVICE SYSTEM" is the Bonafide work of "BABU R (20BAI4003), CHANDEESHARAN B (20BAI4008) , RAGUL SA(20BAI4039), AKILAN B(20BAI4301)" who carried out the minor project work during the academic year 2022-2023 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.


Signature

Mr.R.STALINBABU
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,Karur-639113.




Signature

Dr.N.M.SARAVANAKUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,Karur-639113.

ABSTRACT

This project is dedicated to the development of a comprehensive Blood Donor Management System, strategically designed to streamline the collation of donor information, catalog various blood groups available in each blood bank, and optimize the provision of assistance to patients in need. Serving as a pivotal link between blood donors and hospitals, the system aims to revolutionize the blood donation process by prioritizing efficiency and user experience, thereby refining the traditional approach to blood donor services. A primary focus of this initiative is the enhancement of the user experience. The system is meticulously crafted to provide a user-friendly interface for donors, blood banks, and healthcare providers. Intuitive features and streamlined processes ensure a seamless and positive engagement, fostering a culture of voluntary blood donation and contributing to the overall efficiency of the healthcare system. Equally important is the project's commitment to data privacy. Robust security measures have been implemented to safeguard donor information and mitigate the potential misuse of sensitive data, including addressing concerns related to human trafficking. By placing a premium on data security, the system not only complies with ethical standards but also instills confidence among users, reinforcing the integrity of the entire blood donation ecosystem. In conclusion, this project represents a significant leap forward in healthcare technology, promising to transform blood donor services by incorporating advanced features and a heightened focus on data security. The envisioned system holds the potential to create a safer and more efficient environment for blood donation, ultimately contributing to elevated patient care and a more resilient healthcare infrastructure.

CONCLUSION

In conclusion, the development and implementation of the Integrated Blood Donor Management System mark a pivotal advancement in healthcare technology, with a multifaceted approach aimed at enhancing patient care, user experience, and data security. The project successfully addresses the critical need for a streamlined and efficient blood donation process by centralizing donor information and cataloging the availability of different blood groups in each blood bank. The emphasis on user experience reflects a commitment to making the system accessible and user-friendly for donors, blood banks, and healthcare providers. Through intuitive interfaces and streamlined processes, the project seeks to foster a positive environment for voluntary blood donation, thereby contributing to the overall efficiency and effectiveness of the healthcare system. Ultimately, the Integrated Blood Donor Management System stands as a beacon of progress, offering a safer, more efficient, and user-centric approach to blood donor services. This project's success not only contributes to the optimization of healthcare processes but also underscores the importance of technology in shaping a secure and compassionate healthcare ecosystem. As the system moves towards implementation, its potential impact on patient care and the promotion of voluntary blood donation is poised to be a significant milestone in the healthcare industry.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

on

**J.A.R.V.I.S-THE VIRTUAL ASSISTANT FOR
DIVYANGJAN**

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

in

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Dr.N.M SARAVANAKUMAR

Professor, AI&DS

Submitted by

SUHAS.N (20BAI4047),

BHARADWAJ. S (20BAI4006),

SURYA MOORTHY.U (20BAI4048),

ASWIN KUMARAN.M (20BAI4002).

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639 113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "J.A.R.V.I.S – VIRTUAL ASSISTANT FOR THE DIVYANGJAN" is the Bonafide work of "BHARADWAJ. S (20BAI4006), SUHAS. N (20BAI4047), ASWIN KUMARAN.M(20BAI4002), SURYA MOORTHY.U(20BAI4048)" who carried out the minor project work during the academic year 2022-2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.

Signature 

DR N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI&DS

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113



Signature 

DR N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI&DS

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

ABSTRACT

J.A.R.V.I.S is a virtual voice assistant, which is created to guide the Divyangjan. The biggest challenge for them, especially those with complete loss of vision, is to recognize the people. Blind people roam easily around their house without any help because they know the position of everything in the house. Our project helps blind people to navigate around places by detecting the objects and their relative's faces for prior recognition and actions. This **intelligent virtual assistant** is a software agent that can perform tasks or services for an individual based on commands or questions. A **voice assistant** is a digital assistant that returns the name of the person who is detected in the camera.

CONCLUSION

To elucidate, it can imply that our project greatly helps blind people to recognize their close relatives and detect groups of people, and there is no need for any physical contact to communicate with the virtual assistant. Furthermore, it can work as a personal assistant and diminish the burden of the challenged people.

The uniqueness of the project:

- Unlike other virtual assistants that exist today, J.A.R.V.I.S mainly focuses on helping blind people to recognize people in prior.
- The main feature of J.A.R.V.I.S is recognizing the faces of multiple people and it helps to perform object detection.
- Compose mail, letter, and message through voice command.

A Minor Project Report

On

FAST LANE FUEL DISPENSER (FLFD)

Submitted in partial fulfilment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms.A.Nithyasri,

Assistant Professor

Submitted By

BOOMIHASRI P (20BAI4007)

DEEPIKA K (20BAI4011)

MAHALAKSHMEE B (20BAI4028)

SWETHA K (20BAI4049)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AN DATA SCIENCE

M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "FAST LANE FUEL DISPENSER(FLFD)" is the Bonafide work of "BOOMIHASRI P (20BAI4007), DEEPIKA K (20BAI4011), MAHALAKSHMEE B (20BAI4028), SWETHA K (20BAI4049)" who carried out the minor project work during the academic year 2022-2023 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.


Signature




Signature

Dr.N.M.SARAVANAKUMAR
HEAD OF THE DEPARTMENT,
Department of AI&DS,
M.Kumarasamy college of Engineering,
Thalavapalayam, Karur-639113

Ms.A. NITHYASRI
ASSISTANT PROFESSOR,
Department of AI&DS,
M.Kumarasamy college of Engineering,
Thalavapalayam, Karur-639113

ABSTRACT

Robotization assumes a significant part in 21st hundred years. The goal of this undertaking is to set up a structure which is ready to do subsequently deducting how much the petroleum administered from client's RFID pre-loaded card and send the bill of petroleum dispensed to the client through the Web of Things (IoT). Fluid apportioning frameworks are regularly found in our step-by-step life in better places like work environments, Transport stands, Rail route stations, Petroleum syphons. Here we will show the cutting-edge time petroleum administering framework which is planned to be working with a pre-loaded card using RFID based implanted frameworks innovation, Picture handling based security framework and Web of Things based Charging framework. The framework can further develop the energizing system to make it a lot simpler, secure and solid. The framework likewise takes out human cooperation and maintains a strategic distance from the circumstance of dark selling when there is no serviceman.

CONCLUSION

RFID system is an adaptable development. This system is used as a piece of various application and progressing application. In our application, RFID system allocates the specific proportion of fuel which reduces the maltreatment of the fuel. Furthermore, it also reduces the work. Moreover, assuming the client attempts to swipe with the unapproved card, the RFID system dismisses the card. Thusly the system is so gotten.



A Minor Project Report

On

EDUCATIONAL SURVEY ANALYSIS

Submitted in partial fulfillment of requirements for the award of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs. S. Lavanya

Assistant Professor/Department of AI

Submitted by

DIVESH IYYAPAN S (20BAI4013)

MUTHU R (20BAI4031)

SAIKARTHICK M (20BAI4040)

TAMIL SELVAN M (20BAI4050)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "EDUCATIONAL SURVEY ANALYSIS" is the Bonafide work of "DIVESH IYYAPAN S (20BAI4013), MUTHU R (20BAI4031), SAIKARTHICK M (20BAI4040) and TAMIL SELVAN M (20BAI4050)" who carried out the minor project work during the academic year 2022-2023 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.



Signature

Mrs. S. LAVANYA,

Assistant Professor,

Department of Artificial Intelligence,

M.Kumarasamy College of

Engineering,

Thalavapalayam, Karur-639113.



Signature

Dr. N. M. SARAVANA KUMAR,

Head of the Department,

Department of Artificial Intelligence,

M.Kumarasamy College of

Engineering,

Thalavapalayam, Karur-639113.

ABSTRACT

This minor project delves into the dynamic world of student aspirations and expectations within the Artificial Intelligence and Data Science department of M.Kumarasamy College of Engineering. Leveraging an educational survey administered to current students, the study meticulously examines their evolving mindsets and ambitions across crucial academic milestones like SSLC, HSC, and their college journey. Employing exploratory data analysis techniques, the project sheds light on the transformation of student perspectives, pinpointing any incongruences between their initial expectations and the realities of their departmental experience. Recognizing these discrepancies, the project culminates in actionable recommendations presented to the Head of the department, aiming to bridge the gap and foster a more fulfilling academic environment for future generations of students.

CONCLUSION

Our Educational Survey Analysis explored the evolving aspirations and expectations of the students of Artificial Intelligence and Data Science department in M.Kumarasamy College of Engineering. Analyzing their journey from SSLC and HSC through college life, we identified shifts in mindsets and potential discrepancies between initial hopes and their departmental experience. To bridge these gaps and enhance future students' lives, we recommend organizing more programming classes, hands on workshop from industrial people, aiding students to attend product based multinational corporates, interactive sessions with industrial experts and so on. By embracing this dynamism and adapting to evolving needs, we can ensure our department thrives in the ever-changing educational landscape.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.



A Minor Project Report

on

IRIS RECOGNITION IN SURVEILLANCE

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr.P.Suresh,

Assistant Professor, AI

Submitted by

DEEPAKK V V - 20BAI4010

HARIHARAN M - 20BAI4018

NANDHA KUMAR S - 20BAI4032

SREMAN RAJA P - 20BAI4044

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR - 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "IRIS RECOGNITION IN SURVEILLANCE" is the Bonafide work of "DEEPAKK V V (20BAI4010), HARIHARAN M(20BAI4018), NANDHA KUMAR S(20BAI4032), SREMAN RAJA P(20BAI4044)" who carried out the minor project work during the academic year 2022-2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature

Mr.P.SURESH

HEAD OF THE DEPARTMENT

Department of Artificial Intelligence

Intelligence and Data Science

M.Kumarasamy college

of Engineering

Thalavapalayam, Karur - 639113


Signature

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of Artificial

Intelligence and Data Science

M. Kumarasamy College

of Engineering

Thalavapalayam, Karur-639113.



ABSTRACT

Emerging as a dependable biometric technology, iris recognition finds extensive use in security and surveillance systems. The development of iris recognition algorithms and their application to surveillance scenarios for improved tracking and identification capabilities are examined in this study. The suggested approach achieves reliable and fast iris detection by utilizing cutting-edge deep learning architectures and image processing techniques. We integrate sophisticated picture preparation methods and normalization algorithms into our system to handle issues like lighting changes, occlusions, and image quality. These improvements help the system recognize iris patterns more accurately in a variety of monitoring scenarios.

CONCLUSION

Our research advances the field of iris identification by presenting a complex framework for improved surveillance applications that combines deep learning and image processing methods. The suggested approach not only raises the bar for iris recognition technology but also shows how useful it is for bolstering security precautions and enabling accurate identification in a variety of monitoring settings.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

**IOT based Smart Home Security System and Door Alert
using Smart Phone**

Submitted in partial fulfilment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs. VIDHYA P

Submitted by

NAVEEN M (20BAI4034)

MOHAMED MUZAMMIL A (20BAI4029)

SRI HARAN T (20BAI4046)

DINESH KUMAR S (20BAI4012)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "IOT based Smart Home Security System and Door Alert using Smart Phone" is the Bonafide work of "NAVEEN M(20BAI4034), MOHAMED MUZAMMIL A(20BAI4029), SRI HARAN T(20BAI4046), DINESH KUMAR S(20BAI4012)" who carried out the minor project work during the academic year 2022-2023 under my 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature

Mrs. VIDHYA P

Assistant Professor

Department of AI&DS

M. Kumarasamy College of Engineering

Engineering Thalavapalayam,

Karur-639113.




Signature

Dr. N.M. SARAVANA KUMAR

HEAD OF THE DEPARTMENT

Department of AI&DS

M. Kumarasamy College of

Thalavapalayam,

Karur-639113.

ABSTRACT

With the rapid advancement of Internet of Things (IoT) technology, smart home systems have become increasingly sophisticated, offering enhanced security and convenience. This research presents an innovative IoT-based Smart Home Security System with a focus on door alert functionality integrated with smartphones. The system employs a network of interconnected sensors and devices strategically placed within the home environment to monitor and ensure the security of the premises. Furthermore, the research explores the scalability and adaptability of the proposed system to accommodate additional smart home devices, creating a holistic ecosystem that can be customized to meet the unique security needs of each homeowner. The study also considers the potential challenges and security measures necessary to ensure the robustness and reliability of the IoT-based Smart Home Security System. In conclusion, the presented research contributes to the evolving landscape of smart home technology by introducing an intelligent, IoT-driven security system with a specialized focus on door alert functionality. The integration of smartphones enhances user accessibility and control, making the proposed system an effective and user-friendly solution for modern home security needs.

CONCLUSION

The IoT-based Smart Home Security System and Door Alert using smartphones represent a significant advancement in the realm of home security. The integration of IoT technologies has enabled the creation of a sophisticated and responsive system capable of detecting and notifying homeowners about potential security breaches in real-time. The smart door sensor, a key component of the system, plays a pivotal role in identifying unauthorized access, providing an extra layer of protection for homeowners. The instant alerts delivered to smartphones empower users to take immediate action, fostering a proactive approach to home security. The ability to remotely monitor and control the system through a dedicated smartphone application enhances user convenience and accessibility. In summary, the IoT-based Smart Home Security System and Door Alert using smartphones not only address the contemporary demands for advanced security solutions but also pave the way for future developments in smart home technology. As the technology continues to evolve, it is expected that such systems will play a vital role in creating secure, intelligent, and user-centric living environments.



A Minor Project Report

on

AI DROID FOR FARMERS

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Ms. A. NITHYASRI
Assistant Professor, AI

Submitted by

DEEPAKKUMAR .M - 20BAI4302

JANA.M. G - 20BAI4021

KARTHIKEYAN. L - 20BAI4303

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous)
KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “AI DROID FOR FARMERS ” is the Bonafide work of “JANA M G (20BAI4021), DEEPAKKUMAR M (20BAI4302) and KARTHIKEYAN L (20BAI4303)” who carried out the minor project work during the academic year 2022-2023 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


Signature

Ms.A.NITHYASRI

Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.




Signature

Dr.N.M.SARAVANA KUMAR

Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.

ABSTRACT

AI drones are rapidly emerging as a revolutionary technology in the agriculture industry. They offer an efficient way to increase food production without genetically modifying crops. With the capability to remotely control farming machinery and make independent decisions without human support, AI drones can autonomously manage farming practices. This advanced technology, coupled with a new propeller design, allows increased productivity and high-volume food production. As a result, farmers can optimize their crop yields with real-time data analysis of soil moisture, irrigation needs, and crop health. In summary, AI drones with a new propeller design have the potential to transform traditional farming methods, contribute to sustainable and cost efficient food production for a growing population.

CONCLUSION

The Proposed system is to create a web application to help the parents communicate with the website in an easy and comfortable native language to get the details of the student. To improve the study and career of the students and it also helps to notify parents if any events and functions are done in the organization. Also, the data of the students are being displayed as pdf file format using voice commands and the replica can replay back to the parents in their native language and the teacher's login page is created to upload the pdf files to the corresponding student's profile for easy access to the database. AI drones have emerged as powerful tools in the field of agriculture, offering numerous benefits and opportunities for farmers and the agricultural industry as a whole. Through their advanced capabilities, AI drones facilitate precision agriculture, data-driven decision-making, and enhanced operational efficiency. The integration of AI algorithms, sensors, and imaging technologies enables autonomous operation, intelligent imaging, real-time monitoring, and data-driven insights. These features empower farmers to gather accurate and detailed information about their crops, detect anomalies or pest infestations, optimize resource allocation, and make informed decisions to improve crop health and productivity. AI drones also contribute to sustainable farming practices by enabling targeted interventions, reducing chemical usage through precision spraying, and optimizing resource management. They have the potential to revolutionize the way farmers monitor, manage, and optimize their fields, leading to improved yield, reduced costs, and minimized environmental impact. However, several challenges need to be addressed for the widespread adoption and effective implementation of AI drones in agriculture. These challenges include limited access to advanced technology, regulatory frameworks, data processing and analysis, battery life and flight time limitations, environmental impact, training and technical knowledge, and scalability and affordability. Addressing these challenges requires collaborative efforts from stakeholders, including policymakers, agricultural experts, drone manufacturers, and farmers themselves. It involves developing accessible and affordable solutions, establishing clear regulations and guidelines, promoting training programs, and investing in research and development to enhance the capabilities and usability of AI drones.



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

Current Emotion and Personality Trait Detection cum Virtual Friend

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

in

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Dr. N.M.SARAVANAKUMAR,
Head of the Department,
Artificial Intelligence.

Submitted by

KIRUTHIKA S (20BAI4025)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “Current Emotion and Personality Trait Detection cum Virtual Friend” is the Bonafide work of “KIRUTHIKA S(20BAI4025)” who carried out the minor project work during the academic year 2022-2023 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.


Signature

Dr.N.M.SARAVANA KUMAR *

Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.




Signature

Dr.N.M.SARAVANA KUMAR

Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering, Thalavapalayam,
Karur-639113.

ABSTRACT

This project demonstrates the prediction of personality traits and the current emotions of a person using text, face, image and voice recognition. For Personality Trait detection we are using CV Analysis, Twitter Data, Handwriting, written text and Personality Quiz. For Current Emotion and Stress level we are using Sentimental Analysis, Emotions using photo, group photo and uploaded video and Emotion Detection Using Voice Recognition. And it provides suggestions based on their emotions. The Virtual friend feature adds Guide mode, Child mode, Special Mode, Emergency Mode, Check mode, Family Circle and assistant features with chatbot to it. On the whole it understands emotions, responds to emotions and guides a person, a special person (Blind or Deaf) and old person like a virtual friend and generates reports at the end of each day to make them self analyze their Screen Time.

CONCLUSION

Recognition are used to assess current emotional and stress levels. It also makes recommendations based on their emotions. Guide mode, Child mode, Special Mode, Emergency Mode, Check mode, Family Circle, and Assistant features with chatbot are added to the Virtual Friend feature.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

Phishing Link Identification using Machine Learning

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. K. Jeya Genesh Kumar

Assistant Professor/Department of AI

Submitted by

BARATHKUMAR J K (20BAI4004)

HARI PRASATH S (20BAI4019)

JAGATHRATCHAKAN S (20BAI4020)

KRITHIK T (20BAI4027)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639 113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

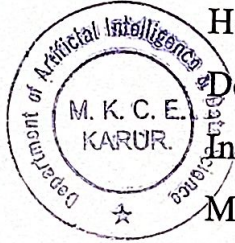
Certified that this project report “PHISHING LINK IDENTIFIER” is the Bonafide work of “GANESH C(20BAI4014), KARTHIK V(20BAI4023), SRIDHARAN R(20BAI4045), VISHUVA V S(20BAI4052)” who carried out the minor project work during the academic year 2022-2023 under our supervision. Certified further, that to 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.


Signature

Mr. K.JEYAGANESH KUMAR
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.


Signature

Dr.N.M.SARAVANAKUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.



ABSTRACT

This project introduces an innovative cybersecurity approach to combat the pervasive threat of phishing attacks by integrating machine learning into websites. The system employs advanced algorithms and diverse datasets to analyze URL patterns, content, and user behavior, providing real-time identification and blocking of malicious phishing links. Key components include feature-rich datasets, feature engineering techniques, and a machine learning ensemble comprising deep neural networks and decision trees.

Continuous adaptation to emerging phishing techniques ensures the system's efficacy in accurately identifying malicious links while minimizing false positives. Validation of the proposed system involves rigorous testing across diverse phishing scenarios, demonstrating its high accuracy and reliability. The research emphasizes the practical implementation of the solution, showcasing its potential to significantly enhance cybersecurity efforts and empower users to navigate the online realm with heightened confidence and security.

CONCLUSION

In conclusion, integrating machine learning into websites for phishing link identification emerges as a powerful and proactive cybersecurity solution. The project showcases the effectiveness of advanced algorithms and diverse datasets in real-time analysis, enabling the prompt identification and blocking of malicious phishing links. The adaptability of the machine learning models to evolving phishing techniques underscores the dynamic nature of this defense mechanism, contributing substantially to the resilience of cybersecurity measures. As users increasingly rely on online platforms, a reliable and accurate phishing link identifier becomes paramount. The system's ability to minimize false positives ensures precision and enhances the overall user experience. Moving forward, the implementation of this innovative cybersecurity approach holds great promise in fortifying digital defenses, offering users a robust shield against the ever-present and evolving threat of phishing attacks.



M.KUMARASAMY
COLLEGE OF ENGINEERING

NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 Certified Institution
Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

On

SALES FORECASTING WEB APPLICATION

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.S.LAVANYA

Assistant Professor/Department of AI

Submitted by

GANESH C (20BAI4014)

KARTHIK V (20BAI4023)

SRIDHARAN R (20BAI4045)

VISHUVA V S (20BAI4052)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639 113

APR -2023

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "SALES FORECASTING WEB APPLICATION" is the Bonafide work of "GANESH C (20BAI4014), KARTHIK V (20BAI4023), SRIDHARAN R (20BAI4045), VISHUVA V S(20BAI4052)"Who carried out the minor project work during the academic year 2022-2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.



Signature

Mrs.S.LAVANYA
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,Karur-639113.



Signature

Dr.N.M.SARAVANAKUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam,Karur-639113.

ABSTRACT

The development of a Sales Forecasting Web Application, designed to provide businesses with insightful predictions and visual representations of their sales trends. The application utilizes AngularJS, a popular JavaScript framework, for front-end development, and Charts.js, a versatile charting library, for dynamic visualization of sales data. The primary objective of this application is to offer businesses a user-friendly interface for analyzing past sales data and predicting future sales trends. AngularJS is chosen for its robust architecture, which facilitates the creation of interactive and responsive web interfaces. By harnessing the power of two-way data binding and dependency injection, AngularJS ensures seamless interaction between the user and the application, enhancing the overall user experience. Charts.js complements AngularJS by providing a wide range of customizable charts, including line charts, bar charts, and pie charts, among others. These charts enable users to visualize sales data in various formats, making it easier to identify patterns, trends, and outliers. Additionally, Charts.js supports real-time updates, allowing users to see changes in sales data as they occur. Overall, the Sales Forecasting Web Application aims to empower businesses with actionable insights derived from their sales data, enabling informed decision-making and strategic planning. By leveraging AngularJS for front-end development and Charts.js for data visualization, the application delivers a powerful yet user-friendly solution for sales forecasting and analysis.

CONCLUSION

In conclusion, the Sales Forecasting Web Application developed using AngularJS and Charts.js represents a significant step forward in empowering businesses with actionable insights derived from their sales data. Throughout the development process, we have successfully leveraged the capabilities of AngularJS to create a user-friendly and interactive interface, while harnessing the visualization prowess of Charts.js to provide dynamic and insightful representations of sales trends. The application offers a range of features, including data visualization, predictive analytics, user-friendly interface design, customization options, and real-time updates, all aimed at enhancing the user experience and facilitating informed decision-making. By enabling businesses to analyze historical sales data and generate forecasts for future trends, the application equips users with the tools they need to make strategic decisions and optimize their operations. Looking ahead, there are several avenues for further improvement and expansion of the Sales Forecasting Web Application. This includes refining predictive algorithms for more accurate forecasts, expanding the range of visualization options, incorporating additional data sources for comprehensive analysis, and enhancing scalability and performance to accommodate growing datasets. Overall, the Sales Forecasting Web Application stands as a testament to the power of modern web technologies in transforming raw data into actionable insights. It represents a valuable tool for businesses of all sizes seeking to gain a deeper understanding of their sales dynamics and drive success in an increasingly competitive marketplace. As we continue to iterate and refine the application, we remain committed to delivering innovative solutions that empower businesses to thrive in today's data-driven world.



A Minor Project Report

On

PRICE AGGREGATION PLATFORM

Submitted in partial fulfillment of requirements for reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. K. Jeya Genesh Kumar

Assistant Professor/Department of AI

Submitted by

PRADEKSHA R K (20BAI4035)

PRADHISHA N (20BAI4036)

PRIYADHARSHINI P (20BAI4037)

SNEKA N (20BAI4042)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “PRICE AGGREGATION PLATFORM” is the Bonafide work of “PRADEKSHA R K(20BAI4035), PRADHISHA N(20BAI4036), PRIYADHARSHINI P(20BAI4037), SNEKA N(20BAI4042)” who carried out the minor project work during the academic year 2022-2023 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.


Signature

Mr. K. JEYA GENESH KUMAR
Assistant Professor,
Department of Artificial Intelligence and Data
science,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.


Signature

Dr.N.M. SARAVANA KUMAR
Head of the Department
Department of Artificial Intelligence and Data
science,
M.Kumarasamy College of Engineering,
Thalavapalayam,
Karur-639113.



ABSTRACT

Our project's primary goal is to assist farmers in setting the price for their produce goods based on the use of fertilizer and manure. We will employ a smart card that contains the farmer's name, the name of the fertilizer, how much fertilizer was purchased, and their phone number to gather information about the fertilizer that farmers have purchased. The information on the smart card will be read and confirmed when the farmers attempt to sell their harvest in a large market. By doing so, we can learn more about the fertilizer shop and whether or not they deal in illegal goods. We can also find out whether the farmer is receiving a fraudulent loan.

CONCLUSION

The innovative approach empowers farmers by enabling them to independently set prices for their agricultural produce. This autonomy not only reduces dependence on intermediaries but also addresses the issue of illicit fertilizer sales. Allowing farmers to determine fair prices promotes transparency and fairness in the agricultural market, eliminating or reducing intermediaries for a more direct and equitable transaction between farmers and consumers. This shift benefits farmers by increasing their share of profits and provides consumers with access to high-quality agricultural products. Additionally, the method improves overall product quality by curbing the sale of illegal fertilizer, ensuring transparency and quality assurance for customers.



A Minor Project Report

On

AJNA – THE SMART READER

Submitted in partial fulfilment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. K. JEYA GANESH KUMAR

Submitted by

GOKUL D - 20BAI4016

KISHORE D - 20BAI4026

MOSHITH K S - 20BAI4030

VIKRAMA PANDIAN U - 20BAI4051

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous)

KARUR – 639 113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report "AJNA – THE SMART READER" is the Bonafide work of "GOKUL D (20BAI4016), KISHORE D (20BAI4026), MOSHITH K S (20BAI4030), VIKRAMA PANDIAN U (20BAI4051)" who carried out the minor project work during the academic year 2022-2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature

Mr. K. JEYA GANESH KUMAR
HEAD OF THE DEPARTMENT
Department of Artificial Intelligence
And Data Science
M.Kumarasamy college
Of Engineering
Thalavapalayam,
Karur-639113.


Signature

Dr.N.M.SARAVANAKUMAR
HEAD OF THE DEPARTMENT
Department of Artificial Intelligence
and Data Science
M. Kumarasamy College
of Engineering
Thalavapalayam,
Karur-639113.



ABSTRACT

AJNA - The Smart Reader is an innovative gadget specifically designed to address the challenges faced by visually impaired individuals. The prevalence of visual disabilities often restricts individuals from accessing written information, making traditional means such as written transcripts inaccessible. While Braille serves as a tactile form of communication, it is not universally available in all environments. Recognizing this gap, our project focuses on providing an effective system for the visually impaired community through the implementation of cutting-edge technologies. At the core of AJNA's functionality lies advanced image processing capabilities, enabling it to interpret and comprehend visual information from the surroundings. Through sophisticated text detection algorithms, the smart reader can identify and extract textual content, converting it into a format accessible to individuals with visual impairments. This transformative technology acts as a third eye for the visually impaired, allowing them to read live text in their environment. To enhance user experience, the smart reader incorporates speech generation and recognition features. The system not only reads the detected text aloud but also recognizes spoken commands, creating a seamless interaction between the user and the device. Leveraging artificial intelligence (AI) algorithms, AJNA serves as a personal AI assistant for visually impaired individuals, providing real-time assistance and information. Furthermore, the smart reader is complemented by a user-friendly app that facilitates customization and control. The app development aspect of the project ensures that users can tailor the device to their preferences, making it an indispensable tool in their daily lives. By combining image processing, text detection, speech generation and recognition, AI assistance, and app development, AJNA emerges as a comprehensive solution to empower visually impaired individuals in navigating and accessing information in the world around them.

CONCLUSION

In conclusion, AJNA - The Smart Reader stands as a testament to the power of technology in addressing the challenges faced by visually impaired individuals. By seamlessly integrating image processing, text detection, speech generation and recognition, AI assistance, and user-friendly app development, our innovative gadget becomes a lifeline for those with visual disabilities. AJNA not only acts as a third eye, enabling the live reading of text in the environment, but also serves as a personal AI assistant, providing real-time support and information. The significance of this project lies in its commitment to inclusivity, ensuring that visually impaired individuals can access and engage with written information in a world that predominantly relies on visual communication.



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur - 639 113.



A Minor Project Report

on

Brain Diseases Prediction Using Deep Learning

Submitted in partial fulfilment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mrs.P.VIDHYA

Submitted by

KEERTHIGA S - 20BAI4024

JEEVITHA K - 20BAI4022

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR - 639 113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report “Brain Diseases Prediction Using Deep Learning” is the Bonafide work of “KEERTHIGA S - 20BAI4024 JEEVITHA K - 20BAI4022” who carried out the minor project work during the academic year 2022-2023 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 based on which a degree or award was conferred on an earlier occasion on this or any other candidate.


Signature

Mrs.P.VIDHYA

Assistant Professor,

Department of Artificial Intelligence
and Data Science

M.Kumarasamy college
Of Engineering

Thalavapalayam, Karur – 639113


Signature

Dr.N.M.SARAVANAKUMAR

Head of the Department

Department of Artificial Intelligence
and Data Science

M. Kumarasamy College
of Engineering

Thalavapalayam, Karur-639113.



ABSTRACT

Artificial intelligence (AI) is a major branch of computer science that is fruitfully used for analyzing complex medical data and extracting meaningful relationships in datasets, for several clinical aims. Specifically, in the brain care domain, several innovative approaches have achieved remarkable results and opened new perspectives in terms of diagnosis, planning, and outcome prediction. Here, we propose, the brain disease detection technique is proposed to detect Alzheimer's, tumors, etc accurately in a given brain MR image, and also it classifies the given brain MR image as normal or abnormal. At first the given image is resized. Then the Gray Level Co-occurrence Matrix (GLCM) is applied to extract the texture features. Then, the derived features are applied to classification using convolution neural network. And then the MRI image is converted into the array data type. By conducting experiments, the proposed technique is assessed and validated for performance as well as quality analysis based on accuracy, sensitivity, and specificity on brain MR images

CONCLUSION

We created a web application to help the doctors and patient's to identify the brain disease in early stage so they can be cured and saving the life of patient's .and italso so very help full to doctors to identify the disease using MRI scan report and conformation to this website output .the website uses the convolution neural networkto create deep learning model to predict the disease so the model was trained by thousands of brain disease affected MRI scan images and the model accuracy will improved. In an era with increasing data and computational power, deep learning has revolutionized several computer science fields and is taking by storm medicine. Convolutional neural networks have been successfully applied to imaging and gemene data in numerous brain disorders, whule recurrent neural networks showed encouraging results with longitudinal clinical data and samor data. Many tasks, such as cross-modality image synthesis, image segmentation, disease diagnous and outcome prediction, have been substantially unproved thanks to deep learning



M.Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.



A Minor Project Report

on

COGNITIVE HELMET FOR BIKE RIDERS

Submitted in partial fulfillment of requirements for the reward of the

Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Under the guidance of

Mr. K. Jeyaganesh Kumar

Assistant Professor/Department of AI

Submitted by

GAYATHRI V R(20BAI4015)

NANDHINI A(20BAI4033)

PRIYANKA N(20BAI4038)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR – 639113

APR 2023

M.KUMARASAMY COLLEGE OF ENGINEERING
(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report report “COGNITIVE HELMET FOR BIKE RIDERS” is the Bonafide work of “GAYATHRI V R (20BAI4015), NANDHINI A (20BAI4033),PRIYANKA N(20BAI4038)” who carried out the minor project work during the academic year 2020-2021 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.


Signature

Mr. K. JEYAGANESH KUMAR
Assistant Professor,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.


Signature

Dr.N.M.SARAVANA KUMAR,
Head of the Department,
Department of Artificial
Intelligence and Data science,
M.Kumarasamy College of
Engineering,
Thalavapalayam, Karur-639113.



ABSTRACT

A recent study claims that participants wearing a bike helmet behave riskier in a computer-based risk task compared to control participants without a bike helmet. We hypothesized that wearing a bike helmet reduces cognitive control over risky behavior. Nowadays, For the increased quantity of bike riders, occurrence of accident also increased. Due to the accidents, Some of the people lose their hands or legs even some of them lose their lives. Even some of the people experience the hardship of living without existence. One of the major reason is that people are not wearing helmets while they ride in bike. Another major reason is "Drunken and Drive". Suppose an accident has been occurred, we are not sure that person who met with accident gets proper medical assistants. Hence, to get rid of this accident we introduced a cognitive helmet with the features like starting key, alcohol, accident, fire and theft detection. The project has been proposed with a helmet that includes 5 features. They are a key starter, alcohol, accident, fire, and theft detection. In the feature starting key, there's an added feature, if the owner takes the helmet it will work as the starting key. But, for user friendly, if the helmet is taken by another one, it will work as an intimation key for the owner. It gives more security to the bike owner. The feature of alcohol detection contains three parts. If the alcohol is normal the bike goes in a normal way, if the alcohol rate is average it will give a buzzer sound, if the alcohol rate is high, the information will be forwarded to one of the relations. If the rate is too much, the bike will go to stop mode. For accident detection, the information will be forwarded to one of the relations or it will be forwarded to a nearby hospital. For Fire detection, a particular frequency was set for the fire quantity. If it is in high temperature, it will be intimated to the emergency number. Theft detection is also done by using the forwarding information by the detection of the fingerprint.

CONCLUSION

Any car collision that takes place on a public route qualifies as a traffic accident. The idea behind this project's development was to benefit society in some way. Two-wheeler accidents are on the rise and claim numerous lives each year. Our project's primary goal is to create a safety system that is integrated with a cognitive helmet and a cognitive bike to lower the likelihood of two-wheeler accidents. If an accident occurs, there are no people nearby to warn the parents or the ambulance. This is an everyday occurrence, thus the concept of coming up with a solution to it led to the idea of informing people about accidents as soon as feasible and in a timely manner. The three main applications that the cognitive helmet focuses on are useful in our daily lives. First and foremost, if we are not wearing a helmet, the bike's ignition will not turn on. Additionally, donning this smart helmet makes it impossible to drive when intoxicated. The bike won't start if the rider is intoxicated. Accident detection is the third application. Additionally, another 2 features are included theft detection and fire detection. For theft detection, finger print sensor is used if the fingerprint is mismatched then the message passes to the owner of the bike so that the theft can be decreased. For fire detection, if any fire accident occurs, the temperature sensors detect and turn off the engine. The system designed provides safety of the riders, in case of accidents it will notify the registered contact and the location of the accident provides a timely safety measure. This also detects the consumption of alcohol and prevents drink and drive cases. This also ensures the person wears the helmet mandatorily. This also detects the theft and fire accidents in bike.



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 Artificial Intelligence and Data Science.

Industrial Visit Proof



M.KUMARASAMY COLLEGE OF ENGINEERING


(Autonomous)
Karur – 639 113.

INDUSTRIAL VISIT APPROVAL FORM

Department	Name of the Applicant	Date
Artificial Intelligence (DS & ML)	1.Mr.R.Ranganathan AP/Maths(AIML)	07.10.2022 &
	2. Mr.R.StalinBabu AP/AIML	08.10.2022
	3.Mrs.Amsa AP/AIDS	

Kindly read the Guidelines before fill the form

- 1 Type of Visit : Industrial Visit
- 2 Date & Time of Departure : 06.10.2022 & 09:30 P.M
- 3 Date & Time of Arrival : 08.10.202 & 09:30 P.M
- 4 Address & Phone Nos. (for contact) : 1st Floor, Trust Building, Kayyath Ln, Palarivattom, Kochi, Kerela 682 025.
- 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 : 
Dr. N.M.SARAVANA KUMAR, M.E., Phd.
PROF & HEAD
Department of Artificial Intelligence & Machine Learning
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur-639113.
- 12 Approval from Dean : 


(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

Mode of Travel

Annexure 1

Sl.No	Details	Mode of Travel	Travel Details * with Phone number of Agent and Driver Phone Number	Responsible Person Handling
1	Destination place to Industry Area and Back for Boys	BUS	TN 88 H 0888, Tamil, Krishnamoorthy D, 9087674711 TN 42 T 5995, Sachin, Karthikeyan R, 9360536744	Faculty 1,2,5,6
2.	Destination place to Industry Area and Back for Girls	BUS	TN 42 AZ 1239, Anand, Ramesh N, 8940596269	Faculty 3,4
Return Journey Details				
3	Destination Place to MKCE	BUS	TN 88 H 0888, Tamil, Krishnamoorthy D, 9087674711 TN 42 T 5995, Sachin, Karthikeyan R, 9360536744	Faculty 1,2,5,6
4	Destination Place to MKCE	BUS	TN 42 AZ 1239, Anand, Ramesh N, 8940596269	Faculty 3,4

* If Travel by outside MKCE bus, FC copy of the bus should be attached

Annexure 2

Copy of the Approval Letter from Industry

- Should contain clear date, time and number of days of Visit
- Letter should be by the authenticated person from the Industry minimum at Manager Level with seal.



CONFIRMATION FOR INDUSTRIAL VISIT

2 messages

HR - IROHUB <hr@irohub.com>

To: vidhyap.ai@mkce.ac.in, Amala P M - IROHUB <amala.pm@irohub.com>, Jibin A - IROHUB <jibin.a@irohub.com>

Hello Team,

Greetings from IROHUB Infotech Pvt Ltd !!!

We are glad to approve the request for Industrial visit for 110 students from Department of Artificial Intelligence of *M.Kumarasamy College of Engineering*, You have been con
You will be provided with training in Android.PHP,IOS and Python ,also you will be visiting the development area.

Note:-

- The timing will be from 9:30 am.
- Individual Industrial Visit Certificate will be provided .
- In order for the permission letter you need to pay an advance of Rs.5500.

About our company

IROID technologies is a global IT solutions provider with its headquarters located In Cochin, India. With the backbone of a bunch of experienced professionals In the software li

Here is a link to our Company Profile and Portfolio to know more about us and our applications.

<http://www.iroidtechnologies.com/>

Location details: IROID Technologies, 2nd Floor-Trust Building, Kayyath Lane, Near Hi Tech Diagnostic Centre, Palarivattom, Cochin.

Thanks & Regards,



HR DEPARTMENT

Office: +91 0484 4041114 | Mob : +918129844744 | www.irohuh.com

2nd floor, Trust Building, Kayyath Lane, Palarivattom, Cochin-25

Disclaimer: This e-mail and any attachments are confidential and may also be legally privileged and/or copyright material of IROHUB Infotech Pvt Ltd. The information contained herein is confiden
immediately by return e-mail and delete/trash the original message from your system. Thank you for your cooperation.

VIDHYA P <vidhyap.ai@mkce.ac.in>
To: vidhyap18@gmail.com

Thu, Sep 22, 2022 at 4:58 PM


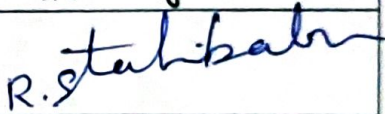

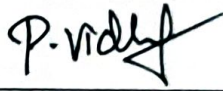

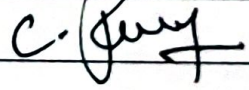
[Quoted text hidden]

Sl.No	Name of the Faculty/ Designation	Male/Female	Contact Mobile Number and Email	Alternate Contact In case of Emergency
1.	Mr.R.Ranganathan AP/Maths(AIML)	Male	9865844047	--
2.	Mr.R.StalinBabu AP/AIML	Male	8825507870	--
3.	Mrs.M.Amsa AP/AIDS	Female	6383890549	--
4.	Mrs.P.Vidhya AP/AIDS	Female	8667798194	--
5.	Mr.G.Govindharaj AP/Maths(AIDS)	Male	9688344307	--
6.	Mr.Pesum Murugan Dept.Attender/ AIDS	Male	8675407771	--

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 behaviour 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.R.Ranganathan	AP/Maths(AIML)	
2.	Mr.R.StalinBabu	AP/AIML	
3.	Mrs.M.Amsa	AP/AIDS	
4.	Mrs.P.Vidhya	AP/AIDS	
5.	Mr.G.Govindharaj	AP/Maths(AIDS)	
6.	Mr.Pesum Murugan Dept.Attender/ AIDS	Dept.Attender/ AIDS	



S.No.	Reg.No	Name	Mobile Number	Gender	Blood Group	Special problem if any
1	927621BAL001	ABISHEK S	8870270071	Male	O+	Nil
2	927621BAL003	ARUN KUMAR S	8438646468	Male	O+	Nil
3	927621BAL004	BALAJI P	8754731542	Male	O+	Nil
4	927621BAL005	BALAKUMAR M D	9344148948	Male	B+	Nil
5	927621BAL006	BHARANI B I	8940134228	Male	O+	Nil
6	927621BAL007	BHARATH PRIYAN S	6385900876	Male	AB+	Nil
7	927621BAL008	CIBIRAJAN V	9361600653	Male	O+	Nil
8	927621BAL011	GOUTHAM M	9940967513	Male	O+	Nil
9	927621BAL012	GOWSIDHARAN S T	7810053709	Male	O+	Nil
10	927621BAL013	HARI KISHORE S	9597989705	Male	O+	Nil
11	927621BAL017	HEMANTH M	9047568645	Male	O+	Nil
12	927621BAL021	JAYASURYA K	8438063721	Male	B+	Nil
13	927621BAL022	JEYA KRISHNA G	9360325358	Male	B+	Nil
14	927621BAL023	KARTHICK P	6380289683	Male	A1+	Nil
15	927621BAL026	KRITHICROSON R	6374184242	Male	A+	Nil
16	927621BAL027	MANOJ KUMAR S G	6374617917	Male	B+	Nil
17	927621BAL028	MITHILESH G	8300592839	Male	O+	Nil
18	927621BAL029	MITHUN KRISHNA G S	6385525873	Male	B+	Nil
19	927621BAL032	NITHISH KUMAR M	8637663862	Male	O+	Nil
20	927621BAL034	PERIYASAMY M	79049 69395	Male	O+	Nil
21	927621BAL036	PRASANTH S	9952412130	Male	O+	Nil
22	927621BAL040	RAMPRASANTH P S	8148384840	Male	B+	Nil
23	927621BAL041	ROHAN KUMAR R	9342933602	Male	O+	Nil
24	927621BAL043	SAKTHIVEL S	8248139272	Male	O+	Nil
25	927621BAL045	SARATHI S	9943159577	Male	O+	Nil
26	927621BAL046	SARAVANAHARIS S	8220087709	Male	B+	Nil
27	927621BAL050	SHESHANTH R S	6385297943	Male	B+	Nil
28	927621BAL051	SIBHISARAN S	7708315748	Male	A1+	Nil
29	927621BAL053	SRINIVASA ARAVINDH S	6380804359	Male	A1-	Nil
30	927621BAL054	SULAIMAAN S	9361007392	Male	O+	Nil
31	927621BAL057	THARUN P V	8072122747	Male	B+	Nil
32	927621BAL058	THULASIDHARAN B	9080258201	Male	B+	Nil
33	927621BAL062	VIGNESH S	7539932883	Male	O+	Nil
34	927621BAL063	VISHWAPRAVEEN J	8754820119	Male	B+	Nil
35	22LAL001	DHANUSH N K	9790682119	Male	O+	Nil
36	22LAL002	VEDHANTH D K	9345523558	Male	B-	Nil
37	22LAL003	MOHAN KUMAR B	8508939969	Male	B-	Nil

mv



S.No.	Reg.No	Name	Mobile Number	Gender	Blood Group	Special problem if any
1	927621BAL002	ARTHI J S	7305360173	Female	A1+	Nil
2	927621BAL010	DHARSHINI B	9952394349	Female	A+	Nil
3	927621BAL014	HARINI M	9363278022	Female	O+	Nil
4	927621BAL016	HARSHINNI V	9715315100	Female	B+	Nil
5	927621BAL020	JANANI SRI G	9791224262	Female	B+	Nil
6	927621BAL024	KAVIYA N	7402698333	Female	B+	Nil
7	927621BAL030	MONISHA K M	6379161766	Female	A1B+	Nil
8	927621BAL031	NANDHINI S	9597632511	Female	B+	Nil
9	927621BAL033	NIVETHA N	6382526161	Female	B+	Nil
10	927621BAL044	SANCHANA S S	9080133733	Female	O+	Nil
11	927621BAL047	SHAHANA S	9361629799	Female	O+	Nil
12	927621BAL048	SHANKARISREE S	9361587480	Female	B+	Nil
13	927621BAL055	SUWETHA K	6379171779	Female	O+	Nil
14	927621BAL059	VAISHNAVI AS	9080423242	Female	O+	Nil
15	927621BAL060	VAISHNAVI N	9566824903	Female	B+	Nil
16	927621BAL061	VARSHIGA P S	9597695744	Female	B+	Nil

hm
Department of Artificial Intelligence & Data Science,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur- 639 113.



S.No	Reg.No	Name	Mobile Number	Gender	Blood Group	Special problem if any
1	927621BAD001	AADHI GOWTHAM V S	8508697095	MALE	O+ve	Nil
2	927621BAD003	ABISHAK D	9443857616	MALE	AB+ve	Nil
3	927621BAD004	AKHIL S T	9943731468	MALE	B +ve	Nil
4	927621BAD006	BOOBESHAN A C	9360110072	MALE	B+ve	Nil
5	927621BAD007	DEVAPRASADH B	9894448744	MALE	B+	Nil
6	927621BAD010	DHINAGARAN V P	9600528727	MALE	O+ve	Nil
7	927621BAD014	HARISH SRIRAJ N	9943845367	MALE	AB+ve	Nil
8	927621BAD015	HARISH V	7708233696	MALE	B+ve	Nil
9	927621BAD020	KANIYAMUDHAN Y	9865254500	MALE	B+ve	Nil
10	927621BAD022	KAVIN M	9443363449	MALE	A+ve	Nil
11	927621BAD025	KRISHNA N	9443745600	MALE	O +ve	Nil
12	927621BAD028	LINGESH S	9842662268	MALE	B +ve	Nil
13	927621BAD032	MOHANAWARMA M G	7904380573	MALE	O+ve	Nil
14	927621BAD033	NAVANEETH S	9787587065	MALE	O+ve	Nil
15	927621BAD034	NAVANEETHA KRISHNAN P S	9443091712	MALE	B+ve	Nil
16	927621BAD038	PRASANNA R	9952154158	MALE	AB+	Nil
17	927621BAD039	PRASANTH S	9443214497	MALE	A+ve	Nil
18	927621BAD040	PRAVEEN T	9443353794	MALE	A1 +ve	Nil
19	927621BAD041	RAHUL R	9360341308	MALE	B +ve	Nil
20	927621BAD042	SAI SETHU M L A	9600455755	MALE	O+ve	Nil
21	927621BAD043	SAIPRASHANNA P	8903827271	MALE	A+ve	Nil
22	927621BAD044	SANJAY S	9994570100	MALE	O+ve	Nil
23	927621BAD045	SATHEESHKUMAR K	9715747078	MALE	O+ve	Nil
24	927621BAD046	SAYNANE R M	9443471754	MALE	B +ve	Nil
25	927621BAD050	SOWNDHAR S	9843334389	MALE	A+ve	Nil
26	927621BAD051	SREE ASWIN RAJHA R S	9442473140	MALE	B+ve	Nil
27	927621BAD058	THANISH SURIYA T	9789555710	MALE	B+ve	Nil
28	927621BAD059	VIMAL MATHEW B	9600623103	MALE	B +ve	Nil
29	927621BAD061	VISHAL R	9842035418	MALE	O+ve	Nil
30	22LAD007	HAREESH KUMAR A	6381597760	MALE	O+ve	Nil



S.No	Reg.No	Name	Mobile Number	Gender	Blood Group	Special problem if
1	927621BAD002	AARTHI B	9994391120	FEMALE	B +ve	Nil
2	927621BAD012	GURUMEETA S R	9443457557	FEMALE	B +ve	Nil
3	927621BAD016	HARSHINI M	9894845248	FEMALE	A+ve	Nil
4	927621BAD018	JOTHIKA MANGAI B	9790155356	FEMALE	B+ve	Nil
5	927621BAD019	JOTHIKA R	8668197644	FEMALE	A1+ve	Nil
6	927621BAD024	KEERTHIKA S	9486028388	FEMALE	O +ve	Nil
7	927621BAD026	LAVANYA DEVI K	7010899192	FEMALE	O+ve	Nil
8	927621BAD027	LIBERNA ASUWATHA A	9843120985	FEMALE	B +ve	Nil
9	927621BAD029	MADHUMITHRA M	9865361930	FEMALE	O+ve	Nil
10	927621BAD030	MAHALAKSHMI R	9787656605	FEMALE	A1+ve	Nil
11	927621BAD035	NIKITHA Y S	8903313084	FEMALE	O -ve	Nil
12	927621BAD036	NIVEDHA M	9800528156	FEMALE	O +ve	Nil
13	927621BAD037	PRANISHKA N	9442242224	FEMALE	O+ve	Nil
14	927621BAD048	SHURUTHI R S	9442793237	FEMALE	O+ve	Nil
15	927621BAD052	SUBAA R	9443565318	FEMALE	B +ve	Nil
16	927621BAD055	SUPRIYA G	9894346675	FEMALE	A1 +ve	Nil
17	927621BAD060	VINOHARSITHA A S	9442863518	FEMALE	O+ve	Nil
18	927621BAD062	VISHNU PRIYA C	9943276650	FEMALE	A+ve	Nil

Accommodation

Sl.No	Name of Hotel/Guest House	Address and Phone Numbers	Responsible Person Handling	Remarks
1.	HOTEL SHALIMAR RESIDENCY (GIRLS)	South Juma Masjid Road, Near South Railway Station, Kochi, Kerala-682 016. Ph. 8667399720, 7667273319	1.Mrs.M.Amsa AP/AI&DS 2.Mrs.P.Vidhya AP/AIDS	
2.	HOTEL GREENLAND RESIDENCY (BOYS)	Monastery Road, Karikkamuri, Shenoy, Kochi, Kerala, 682 011. Ph. 812939784, 6238387686	1.Mr.R.Ranganathan AP/Maths(AIML) 2.Mr.R.StalinBabu AP/AIML 3.Mr.G.Govindhararaj AP/Maths(AIDS) 4.Mr.Pesum Murugan Dept.Attender/ AIDS	

* Attach the accommodation booking copy

hm

Department of Artificial Intelligence & Data Science,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur- 639 113.

UNDERTAKING LETTER - STUDENTS

We are the students of Department - Artificial Intelligence (DS&ML) in M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kerala organized by MKCE Karur on date 06.10.2022 to IROHUB, Cochin. The students will Depart on 06.10.2022, 09:30pm from MKCE, Karur after IV the team will arrival on date 08.10.2022 time 09:30pm at MKCE.. Faculty and staff members of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
1.	927621BAL031	S. NANDHINI	Nandhini
2.	927621BAL030	MONISHA KM	Monisha
3.	927621BAL047	S. SHAHANA	Shahana
4.	927621BAL048	S. SHANKARIBREE	Shankaribree
5.	927621BAL044	S. S. SANCHANA	S. S. Sanchana
6.	927621BAL055	K. SUWETHA	K. Suwetha
7.	927621BAL033	N. NIVETHA	N. Nivetha
8.	927621BAL014	M. HARINI	M. Harini
9.	927621BAL016	V. HARSHINNI	V. Harshinni
10.	927621BAL02A	N. KAVIYA	N. Kaviya
11.	927621BAL002	J.S. ARTHI	J.S. Arthi
12.	927621BAL059	A.S. VAISHNAVI	A.S. Vaishnavi
13.	927621BAL010	B. DHARSHINI	B. Dharsini
14.	927621BAL020	G. JANANI SRI	G. Janani Sri
15.	927621BAL060	N. VAISHNAVI	N. Vaishnavi
16.	927621BAL061	P.S. VARSHIGA	P.S. Varshiga
17.	927621BAL057	P.v. Tharun	P.v. Tharun
18.	927621BAL023	P. karthick	P. Karthick
19.	927621BAL013	S. Hari Kishore	S. Hari Kishore
20.	927621BAL043	S. Sakthivel	S. Sakthivel
21.	927621BAL041	R. ROHANKUMAR	R. Rohankumar

* The Undertaking should repeat in all pages

UNDERTAKING LETTER - STUDENTS

We are the students of Department - Artificial Intelligence (DS&ML) in M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kerala organized by MKCE Karur on date 06.10.2022 to IROHUB, Cochin. The students will Depart on 06.10.2022, 09:30pm from MKCE, Karur after IV the team will arrival on date 08.10.2022 time 09:30pm at MKCE.. Faculty and staff members of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
22	927621BAL040	P.S. RAM PRASANTH	
23	927621BAL024	M. Periyasamy	
24	927621BAL022	G. Jaya Krishna	
25	927621BAL053	S. Srinivasa Anavindh.	
26	22LAL003	B. Mohan Kumar	
27	927621BAL050	R.S. Sheshanth	
28	927021BAL007	S. Bharath Priyam.	
29	927621BAL003	S. Arun Kumar	
30	927621BAL006	B. S. Bharami	
31	927621BAL062	S. Vignesh	
32	927621BAL027	Mawij Kumar Sg	
33	927621BAL046	Saravana Haris	
34	927621BAL028	M P Philesh	
35	927621BAL032	MATHISH KUNAS	
36	927621BAL004	Balaji	
37	927621BAL011	Aowtham.	
38	22LAL002 427	Vedhanth	
39	927621BAL054	SOLAIMAN	
40	927621BAL003	VIJAYA PREEEN	
41	927621BAL012	S.T Gowridharan	
42	927621BAL008	V. Libirajan	

* The Undertaking should repeat in all pages

UNDERTAKING LETTER - STUDENTS

We are the students of Department - Artificial Intelligence (DS&ML) in M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kerala organized by MKCE Karur on date 06.10.2022 to IROHUB, Cochin. The students will Depart on 06.10.2022, 09:30pm from MKCE, Karur after IV the team will arrival on date 08.10.2022 time 09:30pm at MKCE.. Faculty and staff members of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
43	927621 BAL026	Krithiverson R	
44	927621 BAL005	M.D. Balakumar	
45	927621 BAL017	M. Hemant	
46	927621 BAL001	S. Abishek	
47	927621 BAL058	B. Thulasidharan	
48	927621 BAL051	S. Sibhin	
49	927621 BAL021	J. Jaya Surya	
50	927621 BAL036	S. Prasanth	
51	927621 BAL029	G.S. MATHUN KRISHNA	
52	22 LAL001	N.K. DHANUSH	
53	927621 BAL065	Sarathi	
54	927621 BAL035	T. periyasamy	
55			

* The Undertaking should repeat in all pages

UNDERTAKING LETTER - STUDENTS

We are the students of Department - Artificial Intelligence (DS&ML) in M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kerala organized by MKCE Karur on date 06.10.2022 to IROHUB, Cochin. The students will Depart on 05.10.2022, 09:30pm from MKCE, Karur after IV the team will arrival on date 08.10.2022 time 09:30pm at MKCE.. Faculty and staff members of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
1.	927621BADO050	S. Sowndhar	S. Sowndhar
2.	927621BADO059	Vimal mathew . B	B. Vimal
3.	927621BADO043	P. Saijnashanna	P. Saijnashanna
4.	927621BADO042	PRDVEEN.T	P. Praveen
5.	927621BADO045	SATHEESHKUMAR K	K. Satheesh
6.	927621BADO039	S. Navaneeth	S. Navaneeth
7.	927621BADO042	M. L A Sai sethu	M. L A Sai sethu
8.	927621BADO051	Sree Anaswini Rajha	S. Anaswini
9.	927621BADO028	LINMESH.S	S. Linmesh
10.	927621BADO002	ABISHAK D	D. Abishak
11.	927621BADO018	Jothika Mangai . B	B. Jothika
12.	927621BADO027	A. Libeera Asuwatha	A. Libeera
13.	927621BADO048	R. S. Shreethi	R. S. Shreethi
14.	927621BADO012	S-R. Gurumeeta	S-R. Gurumeeta
15.	927621BADO024	S. Keerthika	S. Keerthika
16.	927621BADO019	R. Jothika	R. Jothika
17.	927621BADO036	M. Winedha .	M. Winedha
18.	927621BADO002	B- AARTHI	B. Arthi
19.	927621BADO062	C. Vishnu Praya	C. Vishnu
20.	927621BADO029	M. Madhumithra	M. Madhumithra
21.	927621BADO030	R. Mahabaleshmi	R. Mahabaleshmi

* The Undertaking should repeat in all pages

UNDERTAKING LETTER - STUDENTS

We are the students of Department - Artificial Intelligence (DS&ML) in M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kerala organized by MKCE Karur on date 06.10.2022 to IROHUB, Cochin. The students will Depart on 05.10.2022, 09:30pm from MKCE, Karur after IV the team will arrival on date 08.10.2022 time 09:30pm at MKCE.. Faculty and staff members of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
22	927621BAD020	KANIYAMUDHAN - Y	Y. K. T. S.
23	927621BAD041	RAHUL. R	R. Rahul
24	927621BAD010	DHINAGARAD. V. P	D. V. P.
25	927621BAD025	N. Krishna	N. Krishna
26	927621BAD039	S. Prasanth	S. Prasanth
27	927621BAD015	V. Harish	V. Harish
28	927621BAD046	R.M.SAYNANE	R.M. Sayane
29	927621BAD061	R. Vishal	R. V. F.
30	927621BAD001	V.S.Aadhihowtham	V.S. A.H.
31	927621BAD053	T- THANISH SURIYA	T. T. S.
32	927621BAD005	VS. Aswin Sudhouth	V.S. Aswin
33	927621BAD026	K. Lavanya devi	K. Lavanya
34	222AD007	A. Harshesh Kumar	A. Harshesh
35	927621BAD007	B. Deepavaradh	B. D. F.
36	927621BAD038	R. Prasana	R. Prasana
37	927621BAD037	N. Pranishka	N. Pranishka
38	927621BAD035	Y.S. Nikitha	Y.S. Nikitha
39	927621BAD052	R. Subaa	R. Subaa
40	927621BAD055	G. Supriya	G. Supriya
41	927621BAD060	A.S. Vinoharsitha	A.S. Vinoharsitha
42	927621BAD016	M. Harshini	M. Harshini

* The Undertaking should repeat in all pages

UNDERTAKING LETTER - STUDENTS

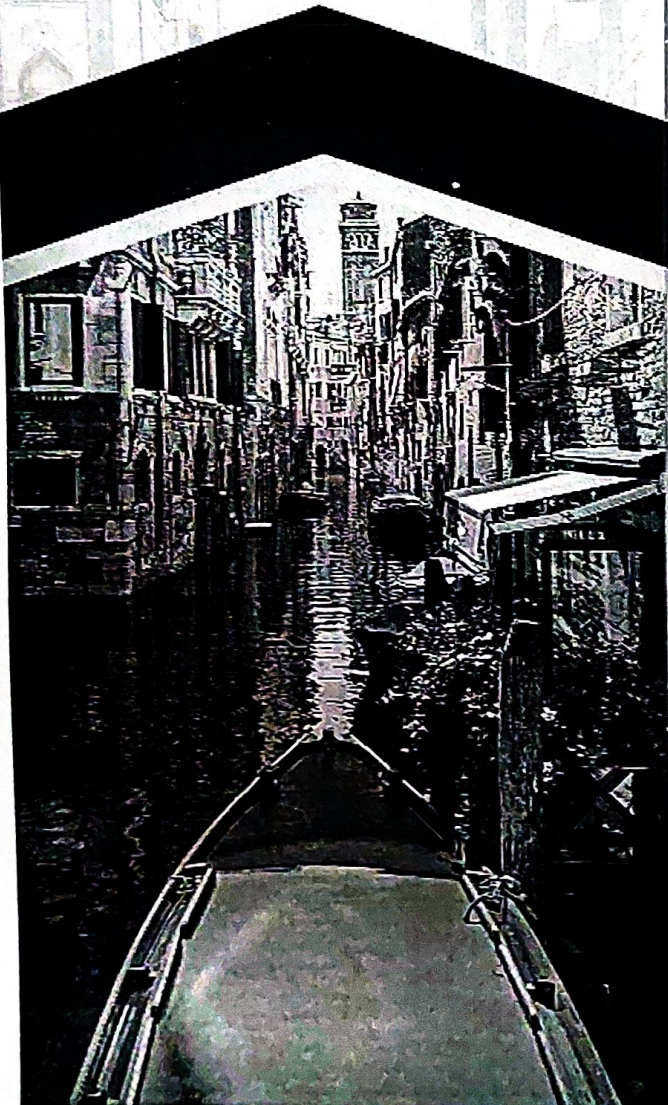
We are the students of Department - Artificial Intelligence (DS&ML) in M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on Industrial Visit to Kerala organized by MKCE Karur on date 06.10.2022 to IROHUB, Cochin. The students will Depart on 05.10.2022, 09:30pm from MKCE, Karur after IV the team will arrival on date 08.10.2022 time 09:30pm at MKCE.. Faculty and staff members of MKCE will not be held responsible for any mishap/eventualities during the trip.

Sl.No	Reg.No	Name	Signature
43			
44			
45			
46	927621BADO14	HARISH SRI RAJ - N	Harish Sri Raj - N
47	927621BADO15	KAVIN . M	M. Kavin
48	927621 BADO22	KAVIN . M	M. Kavin
49		MOHANAWARNAMA	
50		SANJAY . S	
51			
43	927621BADO34	P.S. Navameetha Krishnan	P.S. Navameetha Krishnan
44	927621 BADO22	S. S. Sanjay Kavin . M.	M. Kavin
45	927621 BADO32	M.G. Mohanawarna	M.G. Mohanawarna

* The Undertaking should repeat in all pages

Tour Plan

Enjoy Your Trip With Us!



Day 01

Journey Towards
Kochin
(Around 9pm)

Day 02

- Industry Site
Seeing....
- A) Fort Kochi
 - 1.Beach
 - 2.Vasco da Gama square.
 - B) LULU Mall
 - C)Vypin Beach
 - D)Shopping
 - E)Marine Drive(DJ Boating)

Day 03

Vangamon:

- 1.Proceeding for Jeep Safari..
- 2.Kurishumala
- 3.Ulluponnu Tunnel
- 4.Offroad trucking
- 5.Pine Forest
- 6.Vangamon Meadows
- 7.Idduki Dam Outer view

Package:

Estimated package:
INR 3900/- (With food)
Food - Veg/Non-Veg



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur - 639 113.



B.Tech Artificial Intelligence

INDUSTRIAL VISIT REPORT

On 7th of October 2022, 101 students of second year B.Tech – Artificial Intelligence along with 5 faculty member and 1 staff member of M.Kumarasamy College of Engineering (Autonommous), Thalavapalayam, Karur, visited **IROID Technologies, Cochin.**

Firstly we were taken to reception, there the HR MS.ANJANA welcomed us and explained about their company, then we visited into their R&D Centre. Everyone was splitted into 3 Teams by Ms.Shelna (Marketing Executive), each team visited a developer. At first Team A visited Mr.Shameerali (Android Developer), he explained how to develop android apps based on English and Japanese. Next Team B visited Mr.Vishnu S (PHP Developer), he explained how to develop webpages and applications based on PHP. At last Team C visited Mr.Digil (Software Tester), he explained how to resolve bugs and verifies quality of the software development and deployment.

Finally Mr.Dhanashyam, Project Manager at IRIOD, Cochin, Kerala gave a vote of thanks to the student and team.

At the end of the session, students were able to know about the blooming technology and current trends which will be very helpful for them in their career.

Department of Artificial Intelligence & Data Science,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur-639 113.



mm


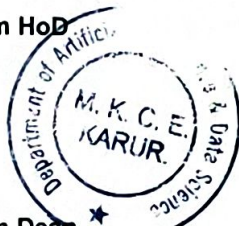
M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)
Karur – 639 113.

INDUSTRIAL VISIT / CULTURAL VISIT / FIELD TRIP /SPORTS MEET APPROVAL FORM

Department	Name of the Applicant	Date
Artificial Intelligence (DS &ML)	1.Mr.K.Jeya Ganesh Kumar	07.10.2022 &
	2.Ms.A.Nithyasri	08.10.2022
	3.Mrs.S.Lavanya	

Kindly read the Guidelines before fill the form

- 1 Type of Visit : Industrial visit
- 2 Date & Time of Departure : 06.10.2022 & 09:30pm
- 3 Date & Time of Arrival : 08.10.202 & 09:30pm
- 4 Address & Phone Nos. (for contact) : 2nd floor, trust building, kayyath Ln, Palarivattom, Kochi, Kerela 682025
- 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 : 
Dr. N.M.SARAVANA KUMAR, M.E., Phd.,
Department of Artificial Intelligence & Machine Learning
M. Kumarasamy College of Engineering,
Thalavapalayam (Sign with Seal) 13.
- 12 Approval from Dean : 


(Sign with Seal)
PRINCIPAL,
M. Kumarasamy College of Engineering,
THALAVAPALAYAM,
KARUR - 639 113

Accompanying Faculty


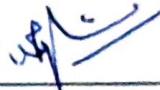
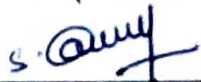
Annexure 3

Sl.No	Name of the Faculty/ Designation	Male/Female	Contact Mobile Number and Email	Alternate Contact In case of Emergency
1.	Mr.K.Jeya Ganesh Kumar	Male	7708302939	--
2.	Ms.A.NithyaSri	Female	9750494383	--
3.	Mrs.L.Lavanya	Female	9003424765	--

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 behaviour 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.K.Jeya Ganesh Kumar	AP/AI&DS	
2.	Ms.A.NithyaSri	AP/AI&DS	
3.	Mrs.S.Lavanya	AP/AI&DS	



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
ATTENDANCE NAMELIST

Year / Semester : III/V

S.NO	REG. NO.	STUDENT NAME	MALE/ FEMALE	MOBILE NUMBER	BLOOD GROUP
1	20BAI4001	ANUSUYA V	FEMALE	6384512526	O+
2	20BAI4007	BOOMIHASRI P	FEMALE	9361405195	O-
3	20BAI4011	DEEPIKA K	FEMALE	9080156507	O+
4	20BAI4015	GAYATHRI V R	FEMALE	8870838900	O+
5	20BAI4022	JEEVITHA K	FEMALE	6369085310	A+
6	20BAI4024	KEERTHIGA S	FEMALE	9486825922	O+
7	20BAI4028	MAHALAKSHMEE B	FEMALE	9442540542	A1B+
8	20BAI4033	NANDHINI A	FEMALE	6369080611	O+
9	20BAI4035	PRADEKSHA R K	FEMALE	6384087480	O+
10	20BAI4036	PRADHISHA N	FEMALE	6379297911	O+
11	20BAI4037	PRIYADHARSHINI P	FEMALE	9791801470	O+
12	20BAI4038	PRIYANKA N	FEMALE	8825873458	O+
13	20BAI4041	SHRI HARSINIMIRA G	FEMALE	6369981695	B+
14	20BAI4042	SNEKA N	FEMALE	7094283059	B+
15	20BAI4043	SREE YAZHINIMIRA L M	FEMALE	9789435047	B+
16	20BAI4049	SWETHA K	FEMALE	9655443373	O+


Department of Artificial Intelligence & Data Science,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur- 639 113.



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
BOYS NAMELIST

Year / Semester : III/V

S.NO	REG. NO:	STUDENT NAME	MOBILE NUMBER	MALE/FEMALE	BLOOD GROUP
1	20BAI4002	ASWIN KUMARAN M	6380882962	MALE	A2+
2	20BAI4003	BABU R	6383467396	MALE	B+
3	20BAI4005	BARATHRAJ R	7708972118	MALE	O+
4	20BAI4006	BHARADWAJ S	9345354807	MALE	O+
5	20BAI4008	CHANDEESHARAN B	6382915009	MALE	O+
6	20BAI4009	DEEPAK D	9787578899	MALE	B+
7	20BAI4013	DIVESH IYYAPAN S	8248443905	MALE	O+
8	20BAI4014	GANESH C	7708111830	MALE	O+
9	20BAI4017	GOWTHAM M	6381245845	MALE	O+
10	20BAI4020	JAGATHRATCHAKAN S	9786267446	MALE	O+
11	20BAI4021	JANA M G	6382412112	MALE	A+
12	20BAI4023	KARTHIK V	7806814517	MALE	O+
13	20BAI4040	SAIKARTHICK M	8838580565	MALE	B+
14	20BAI4045	SRIDHARAN R	7708213387	MALE	O+
15	20BAI4046	SRIHARAN T	8754159565	MALE	O+
16	20BAI4047	SUHAS N	6382510919	MALE	O+
17	20BAI4048	SURYA MOORTHY U	9943931958	MALE	B+
18	20BAI4302	DEEPAKKUMAR M	9385615613	MALE	B+
19	20BAI4303	KARTHILEYAN L	7904469534	MALE	B+


Department of Artificial Intelligence & Data Science,
M. Kumarasamy College of Engineering,
Thalavapalayam, Karur- 639 113.











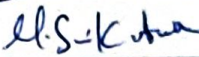

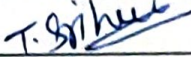




UNDERTAKING LETTER - STUDENTS

We the students of Artificial Intelligence and Data Science
 department of M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on
 Industrial Visit/Cultural Visit/ Field Trip to IR01D Technologies organized on date 07/10/22 & 08/10/22
 departure date 06/10/22 time 9:30pm from MKCE to Karur
 and arrival on date 08/10/22 time 9:30pm at MKCE. Faculty and staff of MKCE will not be
 held responsible for any mishap/eventualities during the trip.

S.No	Reg.No	Name	Signature
1.	20BA14001	ANUSUYA . V	V. Anja.
2.	20BA14007	BOOMIHABRI . P	P. Boomi
3.	20BA14011	DEEPIKA . K	K. Deepika
4.	20BA14015	GIYATHIRI . V . R	V. R. Githy.
5.	20BA14022	JEEVITHA . K	J. Jeevitha
6.	20BA14024	KEERTHIGA . S	S. Keerthiga
7.	20BA14028	MAHALAKSHMEE . B	B. Mahalakshmi
8.	20BA14033	NANDHINI . A	A. Nandhini
9.	20BA14035	PRADEKSHA . R . K	R. K. Pradeksha
10.	20BA14036	PRADHISHA . N	N. Pradhisha
11.	20BA14037	PRIYADHARSINI . P	P. Priyadharsini
12.	20BA14038	PRIYANKA . N	N. Priyanka
13.	20BA14041	SHRI HARSINI MIRA . G	G. Sri Harsini Mira
14.	20BA14042	SNEKA . N	N. Sneka
15.	20BA14043	SREE YAZANI MIRA . L . M	L. M. Sree Yazani Mira
16.	20BA14049	SWETHA . K	K. Swetha
17.	20BA14002	ASWIN KUMARAN . M	M. Aswinkumar

UNDERTAKING LETTER - STUDENTS

We the students of Artificial Intelligence and Data Science
 department of M.Kumarasamy College of Engineering, Karur 639 113 do here-by undertake that we are going on
 Industrial Visit/Cultural Visit/ Field Trip to IRDID Technologies organized on date 07/10/22 & 08/10/22
 ———departure date 06/10/22 time 9:30PM from MKCE , karur
 and arrival on date 08/10/22 time 9:30PM at MKCE. Faculty and staff of MKCE will not be
 held responsible for any mishap/eventualities during the trip.

S.no	Reg.No	Name	Signature
18.	20BA14003	BABU.R	
19.	20BA14005	BARDHRAJ.R	
20.	20BA14006	BHARADWAJ.S	
21.	20BA14008	CHANDEESHARAN.B	
22.	20BA14013	DIVESH IYYAPAN.S	
23.	20BA14014	GIANESH.C	
24.	20BA14017	GOWTHAM.M	
25.	20BA14020	JAGATHRATCHAKAN.S	
26.	20BA14021	JANA.M.G	
27.	20BA14023	KARTHIK.V	
28.	20BA14040	SAI KARTHICK.M	
29.	20BA14045	SRIDHARAN.R	
30.	20BA14046	SRIHARAN.T	
31.	20BA14047	SUHAS.N	
32.	20BA14048	SURYAMOORTHY.U	
33.	20BA14302	KARTHIKEYAN.L	
34.	20BA14303	DEEPAKKUMAR.M	



Fwd: Permission for Industrial Visit
1 message

Nithyasri A <nithyasri.ai@mkce.ac.in>
To: bharadwaj2020ai@gmail.com, Jana M G <janamg2020ai@gmail.com>

With regards,
Ms. A.NITHYASRI,
Assistant Professor,
Department of AI&DS,
M.Kumarasamy College of Engineering(Autonomous),
Karur.

----- Forwarded message -----
From: Nithyasri A <nithyasri.ai@mkce.ac.in>
Date: Fri, Sep 30, 2022 at 5:00 PM
Subject: Re: Permission for Industrial Visit
To: HR - IROHUB <hr@irohub.com>
Cc: HOD AI MKCE <hodai@mkce.ac.in>

Dear sir/mam,

We acknowledge your mail and gladly confirm the same for the Industrial Visit. Also, we assure you that we'll be joining for the visit on the above mentioned date and time.

With regards,
Ms. A.NITHYASRI,
Assistant Professor,
Department of AI&DS,
M.Kumarasamy College of Engineering(Autonomous),
Karur.

On Fri, Sep 30, 2022 at 4:20 PM HR - IROHUB <hr@irohub.com> wrote:
Hello Team,

Greetings from IROHUB Infotech Pvt Ltd !!

We are glad to approve the request for Industrial visit for students from III Year AI&DS, Department of Artificial Intelligence and Data Science, M.Kumarasamy College of Engineering, Karur. You have been considered. You will be provided with training in Android, PHP, IOS and Python, also you will be visiting the development area.

Note:-

- * The timing will be from 9:30am.
- * Common Industrial Visit Certificate will be provided.

About our company

iROID technologies is a global IT solutions provider with its headquarters located in Cochin, India. With the backbone of a bunch of experienced professionals in the software industry, we are inspired

Here is a link to our Company Profile and Portfolio to know more about us and our applications.

<http://www.iroidtechnologies.com/>

Location details: iROID Technologies, 2nd Floor-Trust Building, Kayyath Lane, Near Hi Tech Diagnostic Centre, Palarivattom, Cochin.

Thanks & Regards,

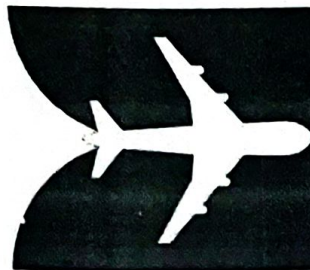


HR DEPARTMENT

Office: +91 0484 4041114 | Mob: +918129844744 | www.irohuh.com

2nd floor, Trust Building, Kayyath Lane, Palarivattom, Cochin-25

Disclaimer: This e-mail and any attachments are confidential and may also be legally privileged and/or copyright material of iROHUB Infotech Pvt Ltd. The information contained herein is confidential and its distribution or copying of this communication is strictly prohibited. If you have received this transmission in error, please notify the above person by telephone immediately.



📍 Dr. Complex, Kuranguchavadi, Salem
☎ +91 8760 306 287, +91 9361 059 669
✉ enquiredreamtours@gmail.com
📷 Dream_tours_offl

DREAM TOURS

Explore your Dreams

Greetings from DREAM TOURS,
(Lets explore your Dreams)

Destination: Cochin, Vagamon, Allapuzha

Days: 01 Nights 02 Days

No. of Persons: 34 students + 3 staffs

Day 0:

- Pickup from College
- Proceed towards cochin

Day 1:

- Check in @ Hotel
- Refreshment
- Breakfast
- Industrial visit
- Chottanikara temple
- Lunch
- Lulu Mall
- Vyppin Beach
- Marine Drive Dj Boating
- Dinner
- Overnight stay @ Hotel



Day 2:

- Checkout @ Hotel
- Breakfast
- Proceed towards vagamon(Jeep safari)
- Lunch
- Malampuzha Dam
- A Day leisure at Alleyppey
- Dinner
- Travel towards college with wonderful memory

Inclusions:

- Two 21 seater(Non AC bus) with major Light settings (Incl. of Toll, Parking, Tax, Driver Beta etc...)
- One night room stay (Non AC – Quad sharing basis)
- 5 Times food (Min. 2 Non-Veg)
- All entry charges (Wonderla, DJ Boating)
- Guide charges
- Complimentary gifts

Exclusions:

- Things not mentioned above
- Personal expenses

Tariff:

- Rs.4000/- Per head

Note:

- This quote is quoted for 35 members
- If Count varies, Tariff also varies
- COVID Protocols will be followed in this Trip
- Places are subjected to time availability

<i>Breakfast</i>	<i>Lunch</i>	<i>Dinner</i>
Idli Dosa Poori Vada Chutney Sambar Pooribajji Tea(or)Coffee	Veg Meals	Chappathi Parotta Gee-Rice (Fried rice) Chicken Curry Chicken Kabab Lime Tea

Food Menu:

- Any two Main Dish will be Provided in Breakfast & Dinner
- Unlimited Food but Chicken Pcs will be Limited

Contact:

For more details,
S.Manivelan B.E.,MBA
 8760306287
 9361059669



Undertaking by the Parent

To
The Principal,
M.Kumarasamy College of Engineering,
Karur-639113.

I NAGARAJAN . T F/o or M/o SUHAS . N
(Roll No. 20BFI4047) of BE/BTech Artificial Intelligence & Data Science

hereby permit my Son/Daughter to undertake the Educational Tours / Field Visits / Industrial Visits / Study Tours / Cultural Visits / NSS Campaign / Club Activities / Sports Activities outside the campus / any Outbound Programmes.

I understand that the travel by rail/road and the stay outside the limits of the campus may involve risk of physical harm, under unexpected circumstances.

I assure that my Son/Daughter is responsible for his/her behavior during the Industrial visit and I will neither blame the Institution nor demand compensation from the same of the results of any untoward incidents.

Signature of the Parent with Date: 

Name and Address of the Parent With contact Number:

NAGARAJAN . T
No 4/4/1,
Periyakalpalayam,
Nerur Palaiyur Post,
karur -639 004
8973544250

UNDERTAKING BY THE PARENT

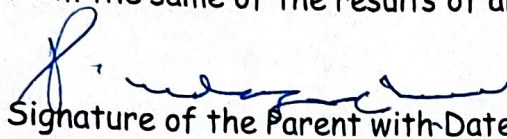
To
The Principal,
M.Kumarasamy College of Engineering,
Karur-639113.

IULAGANATHAN . P..... F/o or M/oSURYA MOORTHY . U.....
(Roll No. 20BA14048) of BE/BTech Artificial Intelligence & Data science

hereby permit my Son/Daughter to undertake the Educational Tours / Field Visits / Industrial Visits / Study Tours / Cultural Visits / NSS Campaign / Club Activities / Sports Activities outside the campus / any Outbound Programmes.

I understand that the travel by rail/road and the stay outside the limits of the campus may involve risk of physical harm, under unexpected circumstances.

I assure that my Son/Daughter is responsible for his/her behavior during the Industrial visit and I will neither blame the Institution nor demand compensation from the same of the results of any untoward incidents.

 (30.09.22)
Signature of the Parent with Date:

Name and Address of the Parent With contact Number:

P. ULAGANATHAN

2/297-B, Govindampalayam

KARUR. Ph: 9843131958

9943931958

Undertaking by the Parent

To
The Principal,
M.Kumarasamy College of Engineering,
Karur-639113.

IPREMA.....V..... F/o or M/oANUSUYA.....V.....
(Roll No. 20BAI4001) of BE/BTechAI & DS.....

hereby permit my Son/Daughter to undertake the Educational Tours / Field Visits / Industrial Visits / Study Tours / Cultural Visits / NSS Campaign / Club Activities / Sports Activities outside the campus / any Outbound Programmes. I understand that the travel by rail/road and the stay outside the limits of the campus may involve risk of physical harm, under unexpected circumstances. I assure that my Son/Daughter is responsible for his/her behavior during the Industrial visit and I will neither blame the Institution nor demand compensation from the same of the results of any untoward incidents.

Signature of the Parent with Date: v. Prema. 28/09/2022

Name and Address of the Parent With contact Number: D/o, A. VEERASAMY,
13/16 SIVASAKTHI NAGAR, THANTHORIMALAI, KARUR.

CONTACT NO : 9943182633.

UNDERTAKING BY THE PARENT

To
The Principal,
M.Kumarasamy College of Engineering,
Karur-639113.

I Rajeshwari V F/o or M/o Gayathri V.K
(Roll No. 20BA I4015) of BE/BTech A.I.E.D.S

hereby permit my Son/Daughter to undertake the Educational Tours / Field Visits / Industrial Visits / Study Tours / Cultural Visits / NSS Campaign / Club Activities / Sports Activities outside the campus / any Outbound Programmes. I understand that the travel by rail/road and the stay outside the limits of the campus may involve risk of physical harm, under unexpected circumstances. I assure that my Son/Daughter is responsible for his/her behavior during the Industrial visit and I will neither blame the Institution nor demand compensation from the same of the results of any untoward incidents.

V. Ganeshwari V

Signature of the Parent with Date:

Name and Address of the Parent With contact Number:


V. Yaiyapuram,
19/8, Nallayee kattu street,
Posthanur (PO),
P. V. elur,
Namakkal (Dt) - 638181

UNDERTAKING BY THE PARENT

To
The Principal,
M.Kumarasamy College of Engineering,
Karur-639113.

I MALATHI K F/o or M/o JEEVITHA K
(Roll No. 20BA14022) of BE/BTech AIDS (III) year

hereby permit my Son/Daughter to undertake the Educational Tours / Field Visits / Industrial Visits / Study Tours / Cultural Visits / NSS Campaign / Club Activities / Sports Activities outside the campus / any Outbound Programmes. I understand that the travel by rail/road and the stay outside the limits of the campus may involve risk of physical harm, under unexpected circumstances. I assure that my Son/Daughter is responsible for his/her behavior during the Industrial visit and I will neither blame the Institution nor demand compensation from the same of the results of any untoward incidents.

 30/9/22

Signature of the Parent with Date:

Name and Address of the Parent With contact Number:

(P. Krishnan) 4/45, Periyaranga palayam,
Punnam chathiram,
Karur.

(9159966425)

Undertaking by the Parent

To

The Principal,

M. Kumarasamy College of Engineering,
Karur-639113.

I R. Meena Priya -F/o or M/o Gr.: Shri. Harsini Mixa
(Roll No. 20BA1404)) of BE/BTech AI. = DS.....

hereby permit my Son/Daughter to undertake the Educational Tours / Field Visits / Industrial Visits / Study Tours / Cultural Visits / NSS Campaign / Club Activities / Sports Activities outside the campus / any Outbound Programmes.

I understand that the travel by rail/road and the stay outside the limits of the campus may involve risk of physical harm, under unexpected circumstances.

I assure that my Son/Daughter is responsible for his/her behavior during the Industrial visit and I will neither blame the Institution nor demand compensation from the same of the results of any untoward incidents.

Signature of the Parent with Date: R. Meena Priya
25/09/22

Name and Address of the Parent With contact Number:

R. Meena Priya
PLT NO: 7, Lathif Nagar,
Uththanampatti Pivivu,
Dindigul - 624005
Ph: NO: 9486798803



B. Tech Artificial Intelligence and Data Science

INDUSTRIAL - VISIT REPORT

On 7TH of October 2022, 16 students of Third year B.Tech Artificial Intelligence and Data Science along with 2 faculty member of M.Kumarasamy College of Engineering (Autonomous), Thalavapalayam, Karur visited IROID TECHNOLOGIES, Ernakulam, Kerala.

At first we were taken to the meeting hall and Ms.AMALA, Management team, IROID technologies, gave a warm welcome to the students and faculty member. And she given a brief introduction about the industry, followed by the addressing of Ms.Zumara, (python)Development team, IROID Technologies through live interaction mode for about 60 minutes. After the live interaction, we had moved on to the development phase and there we had a live interaction with the development team members. They had explained about the software Development life cycle model, Security of IOS and Android as well as ongoing various projects and their capabilities etc..

CONTENTS EXPLAINED:

SDLC:

- Requirement Analysis
- Defining
- Designing
- Coding
- Testing
- Deployment
- Maintenance

Security of IOS and Android:

- Swift language
- Overview about error handling (Prevents code crashes and errors in production)

And Ms.Amala had explained the internship opportunities available in their company during the final year.

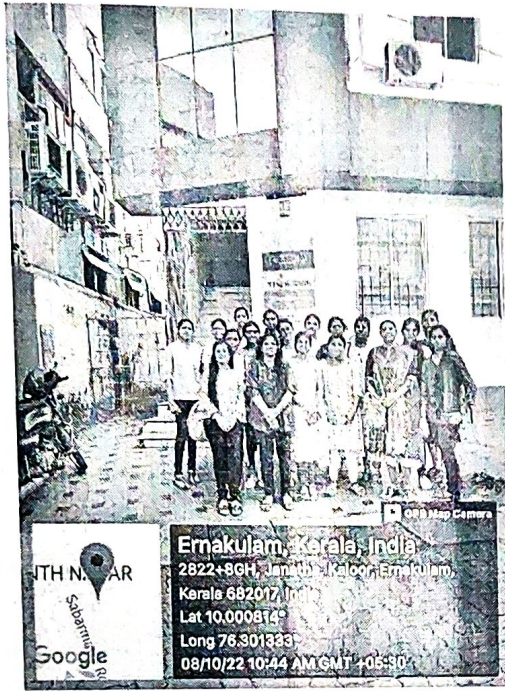
Finally MS.Amala, Management Team, IROID Technologies, Ernakulam, Kerala gave a vote of thanks to the students and team.

At the end of the session, Students were able to know about the blooming technology and current trends which will be very helpful for them in their career.



PICTURES:

COMPANY EXTERIOR



DEVELOPMENT PHASE:



hm
 Department of Artificial Intelligence & Data Science,
 M. Kumarasamy College of Engineering,
 Thalavapalayam, Karur- 639 113.



B. Tech Artificial Intelligence and Data Science

INDUSTRIAL - VISIT REPORT

On 7TH of October 2022, 20 students of Third year B.Tech Artificial Intelligence and Data Science along with 1 faculty member of M.Kumarasamy College of Engineering (Autonomous), Thalavapalayam, Karur visited IROID TECHNOLOGIES, Ernakulam, Kerala.

At first we were taken to the meeting hall and Ms.AMALA, Management team, IROID technologies, gave a warm welcome to the students and faculty member. And she given a brief introduction about the industry, followed by the addressing of Ms.Zumara, (python)Development team, IROID Technologies through live interaction mode for about 60 minutes. After the live interaction, we had moved on to the development phase and there we had a live interaction with the development team members. They had explained about the overview of programming languages used in the IT companies and short explanation about web development.

CONTENTS EXPLAINED:

DJANGO (FRAME-WORK)

- How to install DJANGO
- Models and Databases
- Working with forms
- Templates

WEB DEVELOPMENT

- Front-end
- Back-end
- Full-stack

And Ms.Amala had explained the internship opportunities available in their company during the final year.

Finally MS.Amala, Management Team, IROID Technologies, Ernakulam, Kerala gave a vote of thanks to the students and team.

At the end of the session, Students were able to know about the blooming technology and current trends which will be very helpful for them in their career.

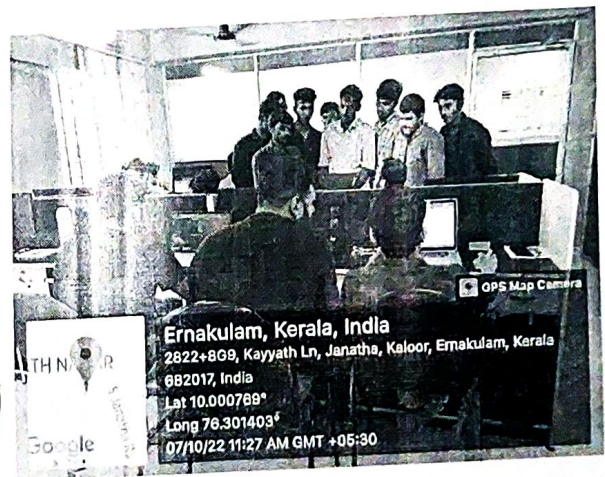


PICTURES:

COMPANY EXTERIOR



DEVELOPMENT PHASE:



MV
 Department of Artificial Intelligence & Data Science,
 M. Kumarasamy College of Engineering,
 Thalavapalayam, Karur- 639 113.