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 Machine Learning.

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 Machine Learning.

Internships Proof

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

अखिल भारतीय तकनीकी शिक्षा परिषद
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DHARSHINI B

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has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By paloalto Cybersecurity Academy

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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 :b6ebc1e7a1df3230445a7ccdfac90c70
Student ID :STU62bc423a27b6e1656504890

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All India Council for Technical Education

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Virtual Internship Completion Certificate

This is to certify that

HARISH MADHAVAN 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 Engineer
Thalavapalayam, Karu

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 :f55cbb124003db5c2c503145b388836a
Student ID :STU61bc812f9047a1639743791

N·E·A·T
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All India Council for Technical Education

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Virtual Internship Completion Certificate

This is to certify that

HARI KISHORE

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By paloalto Cybersecurity Academy

ATTESTED

PRINCIPAL
M.Kumarasamy College of Engineering
Karur - 639113

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 :a5b046f90dd23f571b373c5cb6e479c0
Student ID :STU62bc24c8ea9331656497352

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This is to certify that

NITHISH KUMAR M

M.Kumarasamy College of Engineering (Autonomous)

has successfully completed 10 weeks

Cybersecurity Virtual Internship

during July - Sep 2022

Supported By paloalto Cybersecurity Academy

ATTESTED

PRINCIPAL
M. Kumarasamy College of Engineering
Thalavapalayam, Karur

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 :6582a2e97d763776d56cfacb41d5c79f
Student ID :STU62bc6e7d493fc1656516221

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 Machine Learning.

Minor Projects Proof

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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

AUTOMATIC SIGN AND PHOTO DETECTION

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.SURESH

Assistant Professor, AI

Submitted by

ARUNKUMAR.S - 927621BAL003

HEMANTH.M - 927621BAL017

SHARAN.U - 927621BAL049

VIGNESH.S - 927621BAL062

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 SIGN AND PHOTO DETECTION**" is the Bonafide work of **"HEMANTH M (927621BAL017), ARUNKUMAR S (927621BAL003), SHARAN U (927621BAL049), VIGNESH S (927621BAL062)"** 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.

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR.

SIGNATURE

Mr.P.SURESH

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

The widespread use of digital documents and the increasing concerns related to document forgery, there is a growing need for reliable and efficient methods of authentication. This paper presents an innovative approach to enhance document security through the integration of signature and face detection techniques applied specifically to photocopies.The proposed system employs advanced computer vision algorithms to extract and analyze signatures and facial features from photocopies. The signature detection module utilizes image processing techniques to identify and isolate signatures within the document, considering variations in writing styles and penmanship. Simultaneously, the face detection module employs deep learning models to locate and recognize faces, ensuring that the individuals associated with the signatures are accurately identified.Key components of the system include preprocessing techniques for image enhancement, feature extraction algorithms, and machine learning models for classification. The integration of these components results in a comprehensive solution for the authentication of photocopies, aiming to mitigate the risk of document tampering and identity fraud.The system's effectiveness is evaluated through extensive experimentation on diverse datasets of photocopies, including various document types and qualities. The results demonstrate high accuracy and robustness in signature and face detection, showcasing the system's potential for real-world applications in document verification, legal authentication, and fraud prevention.This research contributes to the ongoing efforts to enhance document security in the digital age. The proposed system offers a valuable tool for organizations and institutions seeking to validate the authenticity of photocopies, safeguarding against unauthorized alterations and ensuring the integrity of important documents

CONCLUSION

In conclusion, our research presents a novel and efficient approach to document security through the integration of signature and face detection techniques specifically designed for photocopies. By leveraging advanced computer vision algorithms, we have developed a system capable of accurately extracting and analyzing signatures and facial features. The signature detection module employs image processing techniques to identify and isolate signatures, accounting for variations in writing styles. Simultaneously, the face detection module utilizes deep learning models to locate and recognize faces, ensuring precise identification of individuals associated with the signatures.Our system's key components include preprocessing techniques for image enhancement, robust feature extraction algorithms, and machine learning models for classification. Through extensive experimentation on diverse datasets, including various document types and qualities, our results demonstrate a high level of accuracy and robustness. This underscores the system's potential for real-world applications in document verification, legal authentication, and fraud prevention.The practical implications of our research are significant, offering a valuable tool for organizations and institutions seeking to validate the authenticity of photocopies. By safeguarding against unauthorized alterations and ensuring the integrity of important documents, our system addresses the growing concerns related to document forgery in the digital age.As future work, we envision refining and expanding our system to handle additional challenges, such as variations in document quality and potential adversarial attacks. Additionally, exploring applications beyond document authentication, such as in forensic analysis or historical document preservation, could further enhance the versatility and impact of our approach.In summary, our research contributes to the ongoing efforts to enhance document security, providing a robust and practical solution for organizations looking to secure photocopies and protect against fraudulent activities.

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ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.

A Minor Project Report

On

DEVELOP A READY TO USE FIRST AID KITS

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

VISHWAPRAVEEN.J 927621BAL063

GOUTHAM.M 927621BAL011

BALAJI.P 927621BAL004

NITHISHKUMAR.M 927621BAL032

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 "**DEVELOP A READY TO USE FIRST AID KITS**" is the Bonafide work of "**VISHWAPRAVEEN J(927621BAL063),GOUTHAM M(927621BAL011), BALAJI P(927621BAL004), NITHISHKUMAR M(927621BAL032)**" 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 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

The first aid kit chatbot project aims to develop a conversational agent that can provide users with timely and accurate information on first aid procedures and emergency situations. The chatbot will be designed to understand and respond to natural language queries, making it user-friendly and accessible to a wide range of users.

- **Chatbot Development**: The chatbot will be developed using natural language processing (NLP) and artificial intelligence (AI) techniques to analyze and comprehend user queries. Itwill be designed to provide text-based assistance and guidance on first aid procedures and emergency situations.

- **Database**: The chatbot will be integrated with a comprehensive database of first aid procedures, emergency contacts, and other relevant information. This database will be regularly updated to ensure the accuracy and relevance of the information provided.

- **User Interface**: The chatbot will have a user-friendly interface that allows users to interact with it through text-based conversations. The interface will be designed to be intuitive and easy to use, even for users with limited technical expertise.

- **Evaluation**: The chatbot will be evaluated based on its accuracy, efficiency, and user satisfaction.

CONCLUSION

A first aid kit chatbot project aims to provide users with essential information and guidance on first aid procedures during emergencies. The chatbot can be designed to answer questions, provide step-by-step instructions, and offer advice on various first aid scenarios. The project can be developed using natural language processing (NLP) and machine learning algorithms to understand user queries and provide accurate and relevant responses.

To ensure the chatbot's effectiveness, it is essential to conduct thorough research on first aid procedures and guidelines. The chatbot should be trained using reliable sources, such as the American Red Cross, the World Health Organization, or local emergency services. The chatbot should also be regularly updated to reflect the latest first aid techniques and best practices.

As future work, we envision refining and expanding our system to handle additional challenges, such as variations in document quality and potential adversarial attacks. Additionally, exploring applications beyond document authentication, such as in forensic analysis or historical document preservation, could further enhance the versatility and impact of our approach.

In summary, our research contributes to the ongoing efforts to enhance document security, providing a robust and practical solution for organizations looking to secure photocopies and protect against fraudulent activities.

In conclusion, a first aid kit chatbot project can be a valuable tool for providing users with timely and accurate information on first aid procedures during emergencies. By leveraging NLP and machine learning algorithms, the chatbot can offer personalized guidance and support, helping users make informed decisions and potentially saving lives.

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ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.

A Minor Project Report

On

AI BASED PLATFORM FOR STUDENTS

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

DHARSHINI.B - 927621BAL010
JANANI SRI.G - 927621BAL020
VAISHNAVI.N - 927621BAL060
VARSHIGA.P.S - 927621BAL061

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 **"AI BASED PLATFORM FOR STUDENTS" DHARSHINI B (927621BAL010), JANANI SRI G (927621BAL020), VAISHNAVI N (927621BAL060) and VARSHIGA P S (927621BAL061)"** 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.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

SIGNATURE

Mr.R.Vijayaganth

ASSISTANT PROFESSOR

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

ABSTRACT

" The Reader: A Seamless Journey Through the World of Books" is an innovative book reading app designed to revolutionize the digital reading experience. This platform integrates advanced algorithms to curate personalized recommendations, ensuring each user embarks on a unique literary journey. With a user-friendly interface prioritizing readability, The Reader offers a vast digital library spanning genres and eras.

Encouraging community engagement, the app facilitates discussions, reviews, and shared reading experiences. Multi-platform accessibility allows users to seamlessly transition between devices, maintaining synchronization of preferences. Interactive features, offline reading, and smart learning tools enrich the reading experience, going beyond traditional e-books. The Reader aspires to cultivate a vibrant reader community, transforming how stories are discovered, shared, and cherished in the digital age. Join us on this exciting journey into the world of literature.

As The Reader continues to evolve, it aspires to be a hub for literary exploration, where readers can discover hidden gems and connect with authors on a deeper level. The app's commitment to fostering a vibrant community extends to virtual book clubs and author Q&A sessions, creating a dynamic space for intellectual exchange. The Reader's commitment to accessibility is unwavering, offering features like audiobooks and customizable font sizes to cater to diverse reading preferences.

CONCLUSION

In conclusion, "The Reader: A Seamless Journey Through the World of Books" represents a paradigm shift in the way readers engage with literature in the digital era. With its innovative features, personalized recommendations, and vibrant community-building tools, the app transcends the boundaries of traditional e- books. The Reader's user-centric design, commitment to accessibility, and continuous evolution position it as a leader in the digital reading landscape.

As users embark on unique literary adventures, The Reader becomes not just a platform but a companion in the exploration of diverse stories and ideas. By fostering community engagement and providing interactive elements, the app transforms reading into a shared experience, redefining how stories are discovered, discussed, and cherished. The Reader stands as a testament to the harmonious integration of technology and literature, inviting readers to embrace the future of storytelling while celebrating the timeless joy of a good book. Join us in this exciting journey as we turn the page on conventional reading experiences, ushering in a new era of literary exploration and connection.

A Minor Project Report

On

AI TO CONTROL A COMPUTER USING VOICE

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

of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr. P. SURESH

Assistant Professor/AI

Submitted by

DEWADHARSHAN K (927621BAL009)

HARISH MADHAVAN A (927621BAL015)

INDHU PRAKASH S (927621BAL018)

TAMIL SELVAN P (927621BAL056)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 **"AI TO CONTROL A COMPUTER USING VOICE"** is the Bonafide work of "DEWADHARSHAN K (927621BAL009), HARISH MADHAVAN A (927621BAL015), INDHU PRAKASH S (927621BAL018), TAMIL SELVAN P (927621BAL056)" 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/AI

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 terms of user engagement, our Virtual Assistant for PCs sets a new benchmark. Its advanced artificial intelligence enables it to comprehend user inquiries and provide conversational, natural responses, making it an invaluable assistant for everydaycomputer activities. It offers a customized experience that represents the developing powers of AI by adjusting to user preferences, picking up knowledge from interactions, and continuously enhancing its performance. This project emphasizes the smooth integration of AI into consumers' life, underscoring the significance of customer-centric design. For users, it offers up a world of possibilities, from easily accessing information and organizing schedules and reminders to controlling smart home gadgets. Our Virtual Assistant for PCs is proof of the potential of artificial intelligence and natural language processing to influence personal computing in the future. It provides developers wishing to push the boundaries of responsive and intelligent virtual assistants with both inspiration and useful resource

CONCLUSION

In conclusion, the development of a voice assistant for controlling a personal computer has been a significant endeavour, offering numerous benefits and opportunities. Throughout this project, we have successfully designed and implemented a voice-controlled system that enhances the user's interaction with their PC. the development of a voice assistant for controlling a personal computer has the potential to revolutionize the way we interact with our PCs, making them more user-friendly and accessible. The voice assistant has enriched the user experience by providing a hands-free and intuitive way to interact with the computer. Users can perform various tasks, such as launching applications, adjusting settings, and performing web searches, simply by using voice commands. This project marks an important step in harnessing the power of voice recognition and natural language processing technologies for the benefit of users. While there are challenges to overcome, the future of voice-controlled computing is promising, and further development and refinement of such systems hold great potential for improving the way we work and interact with our personal computers.

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ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.

A Minor Project Report

On

AUTOMATED HAND LUGGAGE DETECTION

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

BHARANI B I (927621BAL006)
SARAVANA HARIS S (927621BAL046)
MANOJ KUMAR S G (927621BAL027)
MITHILESH G (927621BAL028)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 **"AUTOMATED HAND LUGGAGE DETECTION"** is the Bonafide work of **"BHARANI B I (927621BAL006), MANOJ KUMAR S G (927621BAL027), SARAVANA HARIS S (927621BAL046), MITHILESH G (927621BAL028)"** 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 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

The Abandoned Baggage Detection Project seeks to develop an automated system to identify and manage unattended luggage in public spaces, enhancing security and safety measures. Through the integration of cutting-edge computer vision techniques and machine learning algorithms, the system analyzes live video streams from strategically positioned surveillance cameras across various high-traffic environments like airports, train stations, and shopping centers.

The system employs a multi-tiered approach for baggage detection, involving real-time video analysis and pattern recognition. Initially, the system captures live video feeds from surveillance cameras strategically positioned throughout the monitored area. By employing sophisticated image processing and pattern recognition algorithms, the system can differentiate luggage items from other objects and activities within its field of view, effectively identifying instances of abandonment based on predefined criteria such as duration and behavioral patterns. Upon detecting suspicious luggage, the system promptly triggers alerts to security personnel or designated authorities, enabling rapid response and appropriate intervention measures.

The project aims to proactively mitigate potential security threats associated with unattended baggage incidents, thereby bolstering the resilience of public spaces and strengthening overall security infrastructure. Through its innovative approach and advanced technological capabilities, the Abandoned Baggage Detection Project represents a significant step towards improving security protocols and ensuring the safety of individuals within public environments.

CONCLUSION

In conclusion, the Abandoned Baggage Detection Project represents a critical advancement in public safety and security infrastructure. By harnessing cutting-edge technologies such as computer vision and machine learning, the project offers a proactive solution to mitigate the risks associated with unattended luggage in public spaces. The development of an automated system capable of swiftly identifying and flagging suspicious baggage enhances the efficiency and effectiveness of security protocols in environments such as airports, train stations, and shopping centers. Through real-time monitoring and analysis of surveillance footage, the system provides security personnel with timely alerts, enabling prompt intervention and investigation.

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Thalavapalayam, Karur – 639 113.

A Minor Project Report

On

USE AR/VR TO IMPROVE ATHLETE PERFORMANCE

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

ARTHI J S [927621BAL002]

KAVIYA N [927621BAL024]

NANDHINI S [927621BAL031]

VAISHNAVI A S [927621BAL059]

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 "**USE AR/VR TO IMPROVE ATHLETE PERFORMANCE**" is the Bonafide work of "**ARTHI JS (927621BAL002),KAVIYA N (927621BAL024),NANDHINI S (927621BAL031) and VAISHNAVI A S (927621BAL059)**" 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 AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

SIGNATURE

Dr.N.M.SARAVANAKUMAR

ASSISTANT ROFESSOR

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

ABSTRACT

This proposal envisions a groundbreaking approach to enhancing athlete performance through the strategic integration of augmented reality (AR) and virtual reality (VR) technologies. The primary goal is to create an immersive learning platform or mobile application that offers athletes the flexibility to engage in training sessions anytime and anywhere. The platform's design will prioritize user-friendly interfaces, accessible across various devices, and seamlessly integrating AR and VR functionalities. The second objective involves developing simulations tailored to different sporting environments, including fields, courts, tracks, and more. These simulations will be meticulously crafted to replicate the nuanced challenges of each sport, providing athletes with a realistic training experience. Leveraging VR, the proposed solution will focus on delivering visually authentic environments, immersing athletes in lifelike scenarios to optimize their adaptability and performance under pressure. Moreover, the platform will incorporate advanced pattern recognition capabilities to identify repetitive performance patterns, enabling real-time course correction. This analytical component is crucial for athletes, offering insights into areas for improvement and allowing them to refine their techniques effectively. In summary, the proposed AR and VR enhanced athlete training platform aims to redefine the training paradigm, fostering a dynamic, realistic, and technologically advanced environment that empowers athletes to elevate their performance levels.

CONCLUSION

The integration of augmented reality (AR) and virtual reality (VR) into athlete training holds immense potential to revolutionize and optimize performance enhancement. The proposed objectives, centered around the design of an immersive learning platform or mobile application, simulations for diverse sporting environments, and the incorporation of realistic visuals and pattern recognition through VR, collectively pave the way for a transformative training experience. By providing athletes with the flexibility to practice anytime and anywhere, the platform addresses the constraints of traditional training schedules. The simulations, tailored to various sporting environments, offer a dynamic and realistic practice ground, enhancing adaptability and skill development. The utilization of VR to deliver authentic visuals and analyze repetitive patterns ensures a comprehensive approach to athlete improvement. This innovative solution not only enables athletes to refine their techniques but also empowers them with real-time insights for course correction. In essence, the proposed AR and V-enhanced training platform represents a significant step forward in optimizing athlete performance by combining cutting-edge technology with the practical demands of sports training, offering a holistic and adaptive approach to skill development and excellence.

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ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur – 639 113.

A Minor Project Report

On

PESTICIDES BANK MANAGEMENT

Submitted in partial fulfillment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.K.JEYA GANESH KUMAR
Assistant Professor, AI

Submitted by

SANCHANA.S.S (927621BAL044)
SHAHANA.S (927621BAL047)
SHANKARISREE.S (927621BAL048)
SUWETHA.K (927621BAL055)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 "**PESTICIDES BANK MANAGEMENT**" is the Bonafide work of **"SANCHAHA SS (927621BAL044), SHAHANA S(927621BAL047),SHANKARISREE S(927621BAL048), SUWETHA K(927621BAL055)"** 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 Ganesh Kumar

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

Solution for efficiently managing the distribution, tracking, and utilization of pesticides. This system aims to streamline the processes involved in pesticide distribution, ensuring that pesticides are allocated judiciously, minimizing waste and maximizing their effectiveness in agricultural practices. The system will incorporate features such as inventory management, which tracks the quantity and types of pesticides available in the bank, as well as distribution modules that manage the allocation of pesticides to farmers based on their needs and crop requirements. Additionally, it will include reporting functionalities to generate insights into pesticide usage patterns, enabling authorities to make informed decisions regarding pesticide procurement and distribution strategies. With its user-friendly interface and robust functionalities, the pesticide bank management system will play a pivotal role in promoting sustainable agricultural practices.

CONCLUSION

In conclusion, the development of a pesticide bank management system using Python represents a significant step towards enhancing the efficiency and sustainability of agricultural practices. By automating the tracking, distribution, and reporting of pesticides, this system empowers agricultural authorities and farmers to make informed decisions regarding pesticide usage while minimizing environmental impact and promoting resource conservation. Furthermore, the implementation of such a system underscores the importance of leveraging technology to address complex challenges in agriculture, paving the way for more effective and responsible pesticide management practices in the future. Through its comprehensive features and user-friendly interface, the pesticide bank management system not only streamlines administrative tasks but also fosters transparency and accountability in pesticide distribution processes. By facilitating data-driven insights into pesticide usage patterns and trends, the system enables stakeholders to optimize resource allocation and mitigate the risks associated with overuse or misuse of pesticides. Ultimately, the adoption of this technology holds promise for promoting sustainable agricultural practices, safeguarding ecosystems, and ensuring food security.

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

AUTOMATED NOTES MAKER FROM AUDIO RECORDINGS

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BACHELOR OF TECHNOLOGY

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ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mrs.P.Vidhya

Assistant Professor, AI

Submitted by

JEYA KRISHNA .G - 927621BAL022
SHESHANTH R.S - 927621BAL050
SRI RAGAVENDIRAN.N - 927621BAL052
SRIVIVASA ARAVINDH.S - 927621BAL053
MOHAN KUMAR.B -927621BAL303

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 "**AUTOMATED NOTES MAKER FROM AUDIO RECORDINGS**" is the Bonafide work of **JEYA KRISHNA G(927621BAL022), SHESHANTH R.S(927621BAL050), SRI RAGAVENDIRAN N(927621BAL052), SRINIVASA ARAVINDH S(927621BAL053), MOHAN KUAMR B(927621BAL303)** 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 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

The Automated Notes Maker by Voice Recordings using Notion API is a cutting-edge project designed to streamline the process of note-taking and organization through the integration of voice recognition technology and Notion's powerful API. In an era where information is abundant and multitasking is essential, this project aims to provide users with a seamless and efficient solution for converting spoken words into structured, easily accessible notes. By leveraging the Notion API, the system ensures that the generated notes seamlessly integrate into the user's existing Notion workspace, preserving the platform's collaborative and versatile features.The project begins with the implementation of advanced voice recognition algorithms to accurately transcribe spoken content into text. Leveraging machine learning models and natural language processing techniques, the system ensures high accuracy in capturing verbal input, accommodating a variety of accents and speech patterns. The transcribed content is then processed and organized into a structured format suitable for Notion, including headings, bullet points, and other relevant formatting elements.Furthermore, the integration with Notion's API allows for a direct and secure connection between the automated notes maker and the user's Notion workspace. This seamless integration enables users to effortlessly store, categorize, and access their voice-generated notes alongside other digital assets within the Notion ecosystem. The project ultimately aims to enhance productivity and accessibility for users who rely on voice recordings as a primary means of information capture, offering a sophisticated solution that bridges the gap between spoken ideas and organized digital documentation.

CONCLUSION

In conclusion, the Automated Notes Maker by Voice Recordings using Notion API represents a significant leap forward in the realm of digital note-taking and organization. This project addresses the growing need for efficient and intuitive solutions to capture, transcribe, and store information, particularly in an era where voice communication is prevalent. By seamlessly integrating voice recognition technology with Notion's API, the system not only simplifies the note-making process but also enhances collaboration and accessibility within the Notion workspace.The project's success lies in its ability to harness advanced machine learning algorithms for accurate transcription of diverse spoken content. This ensures that users can effortlessly convert their verbal ideas into well-structured notes, saving time and eliminating the manual effort traditionally associated with note-taking. The utilization of Notion's API adds an extra layer of functionality, allowing users to directly integrate their voice-generated notes into their existing digital workflows, further enhancing the synergy between spoken communication and digital documentation.Looking ahead, this Automated Notes Maker not only caters to individual users but also has the potential to benefit various professional and educational settings where efficient information capture is paramount. As technology continues to evolve, this project stands at the forefront of innovative solutions, offering a glimpse into the future of seamless, voice-driven productivity tools that empower users to effortlessly manage their digital knowledge.

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

AI BASED CHATBOT TO ANSWER FAQs

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BACHELOR OF TECHNOLOGY

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ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mrs.P.VIDHYA

Assistant Professor, AI

Submitted by

1. BHARATH PRIYAN S - 927621BAL007
2. JAMPUGESHWARAN S - 927621BAL019
3. SARATHI S - 927621BAL045
4. SULAIMAAN S - 927621BAL054

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 "AI BASED CHATBOT TO ANSWER FAQs" is the Bonafide work of **"BHARATH PRIYAN S(927621BAL017), JAMPUGESHWARAN S(927621BAL019), SARATHI S(927621BAL045), SULAIMAAN S(927621BAL054)"** 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 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

The project "AI Chat bot using Python" focuses on the development and implementation of an intelligent conversational agent leveraging the power of artificial intelligence (AI). In an era where digital communication plays a pivotal role, chat bots have become integral in providing efficient and user-friendly interactions. This project aims to create a versatile and adaptable chatbot that can understand user queries, provide relevant information, and engage in natural language conversations. The chatbot is built using Python, harnessing the capabilities of natural language processing (NLP) and machine learning (ML) techniques. The project utilizes popular libraries such as NLTK (Natural Language Toolkit) and TensorFlow to enhance language understanding and generate contextually appropriate responses. The chatbot's knowledge base is dynamic, allowing it to continuously learn and adapt to new information. The implementation of the AI Chatbot using Python serves as a testament to the evolving capabilities of AI in facilitating intelligent and context-aware conversations. The project not only contributes to the advancement of conversational AI but also serves as a practical and customization solution for diverse applications, ranging from customer support to virtual assistants. the AI Chatbot's architecture incorporates a modular design, enabling the seamless integration of additional functionalities and external APIs. This extensibility enhances the chatbot's versatility, allowing it to adapt to evolving user needs and technological advancements. The system architecture leverages micro services, enabling individual components to operate independently, ensuring efficient scalability and maintainability. In terms of user interaction, the chatbot employs sentiment analysis to gauge user emotions and tailor responses accordingly. This emotional intelligence aspect enhances the conversational experience, fostering a more empathetic and personalized interaction. Additionally, the chatbot supports multimedia inputs, enabling users to engage through not only text but also images, voice commands, and other media formats, expanding the scope of its utility. The project places a strong emphasis on data privacy and security. User data is treated with the utmost confidentiality, and the chatbot follows best practices for secure communication. Implementing encryption protocols and regular security audits ensures the protection of user information, maintaining trust and compliance with data protection regulations. To assess and improve the chatbot's performance, rigorous testing methodologies are employed. Evaluation metrics include accuracy in understanding user intent, response coherence, and overall user satisfaction. Continuous integration and deployment practices are adopted to facilitate rapid updates and bug fixes.

CONCLUSION

In conclusion, the development and implementation of the AI Chatbot using Python mark a significant stride in the realm of artificial intelligence and natural language processing. This project successfully demonstrates the potential of advanced technologies to create intelligent conversational agents that go beyond mere information retrieval. The chatbot's adaptability, modular architecture, and integration of emotional intelligence contribute to a sophisticated and user-friendly interaction. The commitment to data privacy and security underscores the ethical considerations integral to the project, ensuring users can engage with confidence. By leveraging open-source principles, this endeavor extends an invitation for collaboration and knowledge-sharing within the developer community, fostering innovation in conversational AI. As the project paves the way for the future of human-computer interactions, it not only serves practical purposes in customer support, virtual assistance, and more but also stands as an educational resource for those passionate about advancing AI technologies. The continuous learning mechanisms and scalability of the chatbot position it as a dynamic solution capable of evolving alongside user needs and technological advancements. In essence, the AI Chatbot using Python exemplifies the transformative power of AI in enhancing the quality and intelligence of digital conversations.

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

VIRTUAL ASSISTANT WITH PYTHON GUI

Submitted in partial fulfilment of requirements for the reward

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BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.SURESH

Assistant Professor, AI

Submitted by

KARTHICK.P (927621BAL023)

MITHUN KRISHNA.G.S (927621BAL029)

RAJESH.V (927621BAL038)

THARUN.P.V (927621BAL057)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 "**VIRTUAL ASSISTANT WITH PYTHON GUI**" is the Bonafide work of "**KARTHICK P(927621BAL023), MITHUN KRISHNA G S (927621BAL029), RAJESH V(927621BAL038), THARUN PV(927621BAL057)**" 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 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

In the era of smart technology, the development of virtual assistants has become increasingly popular. This project aims to create a versatile virtual assistant using Python, integrating a graphical user interface (GUI) for a seamless user experience. The virtual assistant will employ voice recognition and natural language processing (NLP) to understand user commands and execute tasks accordingly. By developing this virtual assistant with a Python GUI, the project aims to provide a customization, user-friendly, and efficient solution for individuals seeking an interactive and intelligent virtual assistant.

CONCLUSION

In conclusion, the development of the Python-based Virtual Assistant with a graphical user interface (GUI) has successfully combined the power of voice recognition, natural language processing (NLP), and an intuitive interface to create a versatile and user-friendly application. In summary, the Python-based Virtual Assistant with GUI successfully combines modern technologies to deliver a functional, adaptable, and user-friendly tool. This project not only showcases the capabilities of Python but also highlights the potential for intelligent virtual assistants to become integral components of daily digital interactions.

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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

AUTOMATIC BILLING WITH VOICE

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.K.JEYAGANESH KUMAR

Assistant Professor, AI

Submitted by

JAYASURYA K (927621BAL021)
PRASANTH S (927621BAL036)
SIBHISARAN S (927621BAL051)
THULASIDHARAN B (927621BAL058)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 BILLING WITH VOICE" is the Bonafide work of **"JAYASURYA K(927621BAL021), PRASANTH S(927621BAL036), THULASIDHARAN B(927621BAL058), SIBHISARANS(927621BAL051)"** 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 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

It is a voice based Automated billing Software to be used in Supermarket. Using this software, we can list out the our groceries items through voice. It will reduce the requirement of human beings .The stock of shop will be stored in data managing software. In this Software, we already inbuilt voice recognition library to get input(groceries items) through voice . It is available for 24/7, it will automatically generate bills according to customer's input . The Customer will receive their full groceries list . It also gets updated in stock of the shop after every customer's input. It raises a signal or alarm when stock is get to over and intimates shopkeeper to refill the stock.

CONCLUSION

In addition to its operational advantages, the Voice-based Automated Billing Software signifies a pivotal shift towards a more technologically advanced and customer-centric approach in the supermarket industry. The integration of voice recognition technology not only caters to the convenience of customers but also opens avenues for a more inclusive shopping experience, accommodating those with various abilities or preferences. Moreover, the software's ability to generate detailed bills and provide customers with an instant overview of their grocery list contributes to transparency and customer satisfaction. This transparency extends to inventory management, where the system ensures accuracy and timeliness in updating stock levels. This not only reduces the likelihood of errors but also fosters a proactive approach to inventory replenishment, preventing stock outs and improving overall customer service.

The software's 24/7 availability is a crucial aspect in today's fast-paced world, offering flexibility to customers who may prefer shopping during unconventional hours. This adaptability not only caters to diverse customer schedules but also positions the supermarket as a technologically progressive and customer-friendly establishment. In conclusion, the Voice-based Automated Billing Software not only serves as a tool for operational efficiency but also contributes to a more inclusive, transparent, and customer-oriented supermarket experience. As technology continues to shape the retail landscape, this software stands as a beacon of innovation, poised to redefine the standards of convenience and service in the supermarket industry.

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

AUTOMATED CHEQUE PROCESSING

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance

of

Mrs.S.LAVANYA

Assistant Professor, AI

Submitted by

CIBIRAJAN V (927621BAL008)

HARIKISHORE S (927621BAL013)

SAKTHIVEL S (927621BAL043)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 "**AUTOMATED CHEQUE PROCESSING**" is the Bonafide work of **"CIBIRAJAN V (927621BAL008), HARIKISHORE S (927621BAL013), SAKTHIVEL S(927621BAL043), DHANUSH N K(927621BAL302)"** 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 AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR

SIGNATURE

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

ABSTRACT

The bank employees spent time on processing the manual cheque daily and it is time consuming. Anyone can handle this issue very easily and in a time efficient way. An AUTOMATED CHEQUE PROCESSING system is proposed to process the cheque automatically so that it eliminates human effort. It avoids human effort and improve the efficiency of employees working time.

CONCLUSION

An AUTOMATED CHEQUE PROCESSING system is proposed to process the cheque automatically so that it eliminates human effort. It avoids human effort and improve the efficiency of employees working time. The entire details of the bank user has been extracted and verified automatically and sent the message for the bank admin to accept or decline the transaction.

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

RECOMMENDATION SYSTEM FOR FUTURE SKILLS

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BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

1. HARINI M - 927621BAL014
2. HARSHINNI V - 927621BAL016
3. MONISHA K M - 927621BAL030
4. NIVETHA N - 927621BAL033

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 "**RECOMMENDATION SYSTEM FOR FUTURE SKILLS**" is the Bonafide work of **"HARINI M (927621BAL014), HARSHINNI V(927621BAL016), MONISHA K M (927621BAL030), NIVETHA N (927621BAL033)"** 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 AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR.

SIGNATURE

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

ABSTRACT

In the rapidly evolving landscape of the digital age, the demand for new skills is incessantly growing, making it imperative for individuals to continually adapt and acquire new competencies. In response to this challenge, recommendation systems have emerged as invaluable tools for guiding individuals towards relevant and impact learning opportunities. This paper presents a comprehensive framework for a recommendation system tailored specifically for future skills acquisition.

Our proposed system leverages advanced machine learning algorithms and data analytic techniques to provide personalized recommendations based on an individual's existing skills, career aspirations, industry trends, and emerging technologies. By analyzing vast amounts of data from various sources such as online learning platforms, job postings, and industry reports, the system identifies current skill gaps and predicts future skill demands, thereby enabling users to make informed decisions about their learning paths.

Key features of the system include dynamic updating of recommendations in real-time to reflect changes in market demands and user preferences, interactive interfaces for seamless user experience, and integration with existing learning platforms to facilitate smooth transition between recommendation and learning activities. Additionally, the system incorporates feedback mechanisms to continuously improve the accuracy and relevance of recommendations over time.

Through empirical evaluation and user feedback, we demonstrate the effectiveness and usability of the proposed recommendation system in facilitating skill development for the future workforce. We believe that our approach holds significant promise in empowering individuals to navigate the complex landscape of future skills acquisition and thrive in the ever-changing digital economy.

CONCLUSION

In conclusion, the development of a Recommendation System for Future Skills represents a significant step forward in addressing the dynamic challenges of skill acquisition in the digital age. By leveraging advanced machine learning algorithms, data analytics techniques, and real-time data sources, such a system can provide personalized guidance to individuals seeking to enhance their competencies and adapt to evolving market demands.

Through our comprehensive framework, we have demonstrated the potential of such a system to accurately identify skill gaps, predict future skill demands, and deliver tailored recommendations aligned with users' career aspirations and learning preferences. The system's ability to dynamically update recommendations in real-time ensures that users receive timely guidance that reflects the latest trends and developments in their respective fields.

Moreover, the seamless integration with existing learning platforms streamlines the learning process, enabling users to focus more on acquiring skills rather than managing disparate resources. The incorporation of feedback mechanisms ensures continuous improvement, enhancing the accuracy and relevance of recommendations over time. Empirical evaluations and user feedback have underscored the efficacy and usability of the proposed system in facilitating skill development for the future workforce. High levels of engagement and perceived usefulness indicate the system's potential to empower individuals to navigate the complex landscape of future skills acquisition successfully.

Ultimately, Recommendation Systems for Future Skills have the potential to revolutionize the way individuals acquire and develop competencies, enabling them to thrive in the dynamic and ever- changing digital economy. By empowering individuals with the knowledge and skills needed to succeed in their careers, these systems can contribute to fostering a more agile, adaptable, and resilient workforce for the future

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 VIDEO SURVEILLANCE

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In

ARTIFICIAL INTELLIGENCE AND

MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

ABISHEK.S (927621BAL001)
KEERTHIVASAN.E (927621BAL025)
PERIYASAMY.M (927621BAL034)
RAGHU SASTHA.P.M (927621BAL037)
ASWIN KUMAR.B (927621BAL301)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 VIDEO SURVEILLANCE" is the Bonafide work of **"ABISHEK.S (927621BAL001), KEERTHIVASAN.E(927621BAL025), PERIYASAMY.M (927621BAL034), RAGHUSASTHA.P.M (927621BAL037), ASWINKUMAR.B (927621BAL301)"** 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 AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

SIGNATURE

Dr.N.M.SARAVANAKUMAR

ASSISTANT ROFESSOR

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

ABSTRACT

This research focuses on advancing object detection in video surveillance by employing a unified framework based on deep learning techniques, specifically convolutional neural networks (CNNs) and recurrent neural networks (RNNs). The model is trained on diverse datasets to ensure adaptability to real-world scenarios, and optimization techniques like model quantization and parallelization are applied for real-time processing. The integration of edge computing is explored to enhance system responsiveness. A novel annotation tool is developed for comprehensive datasets creation, including temporal annotations for understanding object trajectories. The proposed system demonstrates superior performance in terms of accuracy, speed, and adaptability, with potential applications in improving security and situational awareness across various domains.

CONCLUSION

In conclusion, this research presents a robust and efficient approach to object detection in video surveillance, addressing key challenges through the integration of deep learning techniques, optimization strategies, and novel datasets annotation tools. The proposed unified framework, leveraging CNNs and RNNs, showcases superior performance in terms of accuracy and speed, making it well-suited for real-world deployment. The exploration of edge computing further enhances the system's responsiveness, crucial for applications requiring rapid decision-making. The development of a comprehensive annotation tool facilitates the creation of datasets that accurately represent the complexities of diverse scenarios. Overall, this research contributes to the advancement of video surveillance technology, offering a promising solution to improve security, safety, and situational awareness across various domains, from smart cities to critical infrastructure protection. The proposed approach lays the foundation for future developments in the field, fostering more effective and adaptable video surveillance systems.

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

AI BASED TOOL TO HELP BLIND TO IDENTIFY OBSTACLES

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mrs.P.Vidhya
Assistant Professor, AI

Submitted by

BALAKUMAR M D - 927621BAL005

GOWSIDHARAN S T - 927621BAL012

KRITHICROSON R - 927621BAL026

PERIYASAMY T - 927621BAL035

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 **"AI BASED TOOL TO HELP BLIND TO IDENTIFY OBSTACLES"** is the Bonafide work of **"BALAKUMAR M D(927621BAL005), GOWSIDHARAN S T(927621BAL012), KRITHICROSON R(927621BAL026), PERIYASAMY T (927621BAL035)"** 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 AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR

SIGNATURE

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

ABSTRACT

Navigating the world confidently and independently can be a daily struggle for the visually impaired. Traditional aids like white canes offer limited coverage and lack real-time feedback, often leading to uncertainty and potential collisions. Our project bridges this gap by harnessing the power of AI to develop a novel tool for obstacle detection and audio feedback designed specifically for the visually impaired. Built using Python and cutting-edge computer vision algorithms, our tool analyzes the surroundings in real-time, pinpointing obstacles with precision. It then generates tailored audio alerts like "Person approaching on your right" or "Stationary object ahead," empowering users to navigate with confidence and make informed decisions to avoid collisions. This user-centric design features customizable audio options and prioritizes clear, concise, and easily distinguishable alerts. Beyond individual benefits, our tool holds immense potential to revolutionize lives by boosting confidence, enhancing engagement in daily activities, and reducing reliance on assistance. Looking ahead, advancements in object recognition, spatial awareness, wearable integration, and personalized functionalities pave the way for a future where individuals with visual impairments can navigate the world with equal access and newfound freedom.

CONCLUSION

Our AI-powered tool has demonstrably enhanced the lives of visually impaired individuals, empowering them to navigate with newfound confidence and autonomy. Real-time obstacle detection and personalized audio alerts have not only reduced reliance on assistance but also opened doors to greater participation in daily activities and social interactions. As we refine object recognition, incorporate spatial awareness, and seamlessly integrate with wearable technology, the future holds immense promise for an even more inclusive world. Imagine a future where navigating the world with equal access and independence is not a dream, but a reality for all, regardless of ability. This is the future our project strives to pave, brick by digital brick.

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

REAL TIME HUMAN TRACKING

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.SURESH

Assistant Professor, AI

Submitted by

ARUNKUMAR.S - 927621BAL003

HEMANTH.M - 927621BAL017

SHARAN.U - 927621BAL049

VIGNESH.S - 927621BAL062

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 **"REAL TIME HUMAN TRACKING"** is the Bonafide work of **"HEMANTH M(927621BAL017), ARUNKUMAR S(927621BAL003), SHARAN U (927621BAL049), VIGNESH S(927621BAL062)"** 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 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

The objective of object tracking is to track objects in consecutive video frames.Real Time Human Tracking is the process of locating of all instance of human over time using the camera in real time. Object tracking requires location and shape or feature of objects in the video frames as of like for tracking human too.Tracking of human from multiple frames will need more targeting factors with consecutive features.YOLO (You Look Only Once) is a generalized object detection framework built on a Convolutional Neural Network to detect, classify and localize objects in images and video streams as a novel approach to Computer Vision Real World Domain specific problems. It considers object detection to be a single regression problem unlike other object detection algorithms which take it to be a classification problem. This complex object detection algorithm has become really popular due to its speed at detecting, classifying and localizing multiple objects across different classes at the same time.

CONCLUSION

The intent of this project is to build an implementation of YOLOv3 after comparing it with the other state-of-the-art object detection algorithm.Human tracking has made significant progress in recent years, and ongoing research in this field promises to make human tracking more accurate, efficient, and reliable.It will lead to numerous real-world applications that can improve safety, security, and overall quality of life.

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

CHAT BOT FOR FIRST AID USING AI

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.K.Jeya Ganesh Kumar

Assistant Professor, AI

Submitted by

BALAJI P (927621BAL004)

GOUTHAM M (927621BAL011)

ROHAN KUMAR R (927621BAL041)

VISHWAPRAVEEN J (927621BAL063)

VENDHANTH B K (927621BAL304)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 "CHAT BOT FOR FIRST AID USING AI " is the Bonafide work of "**VISHWAPRAVEEN J(927621BAL063), GOUTHAM M(927621BAL011), BALAJI P(927621BAL004), VISHWAPRAVEEN J (927621BAL063), VENDHANTH B K (927621BAL304)**" 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 Ganesh Kumar
Assistant Professor
Department of Artificial Intelligence
M.Kumarasamy College of Engineering
Thalavapalayam, Karur – 639 113

SIGNATURE

Dr.N.M.Saravanakumar
Head of the Department
Department of Artificial Intelligence
M.Kumarasamy College of Engineering,
Thalavapalayam, Karur – 639 113

ABSTRACT

The first aid kit chatbot project aims to develop a conversational agent that can provide users with timely and accurate information on first aid procedures and emergency situations. The chatbot will be designed to understand and respond to natural language queries, making it user-friendly and accessible to a wide range of users.

● Chatbot Development: The chatbot will be developed using natural language processing (NLP) and artificial intelligence (AI) techniques to analyze and comprehend user queries. It will be designed to provide text-based assistance and guidance on first aid procedures and emergency situations.

● Database: The chatbot will be integrated with a comprehensive database of first aid procedures, emergency contacts, and other relevant information. This database will be regularly updated to ensure the accuracy and relevance of the information provided.

● User Interface: The chatbot will have a user-friendly interface that allows users to interact with it through text-based conversations. The interface will be designed to be intuitive and easy to use, even for users with limited technical expertise.

● Evaluation: The chatbot will be evaluated based on its accuracy, efficiency, and user satisfaction

CONCLUSION

A first aid kit chatbot project aims to provide users with essential information and guidance on first aid procedures during emergencies. The chatbot can be designed to answer questions, provide step-by-step instructions, and offer advice on various first aid scenarios. The project can be developed using natural language processing (NLP) and machine learning algorithms to understand user queries and provide accurate and relevant responses. To ensure the chatbot effectiveness, it is essential to conduct thorough research on first aid procedures and guidelines. The chatbot should be trained using reliable sources, such as the American Red Cross, the World Health Organization, or local emergency services. The chatbot should also be regularly updated to reflect the latest first aid techniques and best practices.

As future work, we envision refining and expanding our system to handle additional challenges, such as variations in document quality and potential adversarial attacks. Additionally, exploring applications beyond document authentication, such as in forensic analysis or historical document preservation, could further enhance the versatility and impact of our approach.

In summary, our research contributes to the ongoing efforts to enhance document security, providing a robust and practical solution for organizations looking to secure photocopies and protect against fraudulent activities.

In conclusion, a first aid kit chatbot project can be a valuable tool for providing users with timely and accurate information on first aid procedures during emergencies. By leveraging NLP and machine learning algorithms, the chatbot can offer personalized guidance and support, helping users make informed decisions and potentially saving lives.

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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

MUSIC RECOMMENDATION SYSTEM

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by
DHARSHINI.B - 927621BAL010
JANANI SRI.G - 927621BAL020
VAISHNAVI.N - 927621BAL060
VARSHIGA.P.S - 927621BAL061

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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" DHARSHINI B (927621BAL010), JANANI SRI G (927621BAL020), VAISHNAVI N (927621BAL060) and VARSHIGA P S (927621BAL061)"** 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.

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR.

SIGNATURE

Mr.R.Vijayaganth
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

We propose a new approach for playing music automatically using facial emotion. Most of the existing approaches involve playing music manually, using wearable computing devices, or classifying based on audio features. Instead, we propose to change the manual sorting and playing. We have used a Convolutional Neural Network for emotion detection. Our proposed system tends to reduce the computational time involved in obtaining the results and the overall cost of the designed system, thereby increasing the system's overall accuracy. Facial expressions are captured using an inbuilt camera. Feature extraction is performed on input face images to detect emotions such as happy, angry, sad, surprise, and neutral. Automatically music playlist is generated by identifying the current emotion of the user. It yields better performance in terms of computational time, as compared to the algorithm in the existing literature.

CONCLUSION

A thorough review of the literature tells that there are many approaches to implement Music Recommender System. A study of methods proposed by previous scientists and developers was done. Based on the findings, the objectives of our system were fixed. As the power and advantages of AI-powered applications are trending, our project will be a state-of-the-art trending technology utilization. In this system, we provide an overview of how music can affect the user's mood and how to choose the right music tracks to improve the user's moods.

The implemented system can detect the user's emotions. The emotions that the system can detect were happy, sad, angry, neutral, or surprised. After determining the user's emotion, the proposed system provided the user with a playlist that contains music matches that detected the mood. Processing a huge dataset is memory as well as CPU intensive. This will make development more challenging and attractive. The motive is to create this application in the cheapest possible way and also to create it under a standardized device. Our music recommendation system based on facial emotion recognition will reduce the efforts of users in creating and managing playlists.

This system, although completely functioning, does have scope for improvement in the future. There are various aspects of the application that can be modified to produce better results and a smoother overall experience for the user. This emotionincluded supporting the playing of music automatically. The future scope within the system would style a mechanism that might be helpful in music therapy treatment and help the music therapist to treat the patients suffering from mental stress, anxiety, acute depression, and trauma.

A Minor Project Report

On

CRIMINAL DETECTION IN A PUBLIC CROWD

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

of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr. P. SURESH

Assistant Professor/AI

Submitted by

DEWADHARSHAN K (927621BAL009)

HARISH MADHAVAN A (927621BAL015)

INDHU PRAKASH S (927621BAL018)

TAMIL SELVAN P (927621BAL056)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 **"CRIMINAL DETECTION IN A PUBLIC CROWD"** is the Bonafide work of "DEWADHARSHAN K (927621BAL009), HARISH MADHAVAN A (927621BAL015), INDHU PRAKASH S (927621BAL018), TAMIL SELVAN P (927621BAL056)" 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/AI

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

ABSTRACT With the increasing prevalence of surveillance camera systems in public spaces, the need for advanced technologies to enhance security and public safety has become paramount. This research focuses on the development and implementation of a robust criminal detection system utilizing machine learning algorithms on surveillance camera footage. The proposed system leverages stateof-the-art deep learning techniques to analyse and interpret complex visual data captured in crowded public environments. Convolutional Neural Networks (CNNs) are employed for feature extraction, enabling the system to identify and track individuals within the crowd. Additionally, recurrent neural networks (RNNs) are utilized to capture temporal dependencies, enhancing the model's ability to recognize suspicious behaviours or patterns over time. A comprehensive dataset comprising diverse crowd scenarios, varying lighting conditions, and potential criminal activities is curated to train and validate the machine learning models. The dataset includes annotated instances of criminal behaviour, aiding the models in learning discriminative features associated with illicit activities

CONCLUSION

In conclusion, the integration of machine learning algorithms with surveillance camera systems for criminal detection in public crowds represents a significant leap forward in enhancing public safety and security. The research presented herein demonstrates the effectiveness of leveraging deep learning techniques, particularly Convolutional Neural Networks (CNNs) and Recurrent Neural Networks (RNNs), to analyse complex visual data and identify potential criminal activities. The developed system, trained on a diverse dataset reflecting real-world scenarios, showcases robust performance in handling challenges such as occlusions, varying lighting conditions, and dynamic crowd movements. The incorporation of advanced object detection and tracking algorithms further ensures accurate localization and continuous monitoring of individuals, contributing to the system's reliability in identifying suspicious behaviours. One of the key strengths of the proposed system lies in its proactive nature, providing timely alerts to law enforcement or security personnel. The ability to recognize and track individuals over time enables the system to detect patterns associated with criminal activities, allowing for preventive measures to be taken. The practical applicability of the developed solution is underscored by its seamless integration with existing surveillance infrastructure, facilitating its deployment in diverse urban environments, transportation hubs, and crowded public spaces. By automating the detection process, the system minimizes the burden on human operators and significantly reduces response times.

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

HUMAN DETECTION WHO LEAVES BAGGAGE UNATTENDED

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

BHARANI B I (927621BAL006)
SARAVANA HARIS S (927621BAL046)
MANOJ KUMAR S G (927621BAL027)
MITHILESH G (927621BAL028)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR-639113

APRIL 2023

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

BONAFIDE CERTIFICATE

Certified that this project report **"HUMAN DETECTION WHO LEAVES BAGGAGE UNATTENDED"** is the Bonafide work of **"BHARANI B I (927621BAL006), MANOJ KUMAR S G (927621BAL027), SARAVANA HARIS S (927621BAL046), MITHILESH G (927621BAL028)"** 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.

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR.

SIGNATURE

Mr.P.SURESH

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

This project proposes an automated human detection system designed to identify individuals who leave baggage unattended in public areas.

The system integrates advanced computer vision techniques and machine learning algorithms to analyze live video feeds from surveillance cameras installed in public spaces. The primary objective is to detect instances where individuals abandon their baggage and move away from the vicinity. The system employs a multi-stage approach, beginning with background subtraction and object detection to identify both the baggage and potential human subjects in the scene.

Subsequently, the system tracks the movement of detected objects over time and applies behavioral analysis algorithms to distinguish between regular human activities and suspicious behavior associated with abandoning baggage. Machine learning models trained on labeled datasets aid in recognizing patterns indicative of unattended baggage situations, thereby minimizing false alarms and optimizing detection accuracy.

The proposed automated human detection system offers several advantages over traditional manual surveillance methods, including increased efficiency, round-the-clock monitoring capabilities, and reduced dependency on human vigilance. By leveraging cutting-edge technology, the system enhances the overall security posture of public spaces and transportation infrastructure, thereby safeguarding lives and property against emerging threats.

CONCLUSION

In conclusion, the development of an automated human detection system for identifying individuals who leave baggage unattended represents a significant advancement in public security infrastructure. Through the integration of computer vision and machine learning technologies, the project has demonstrated the feasibility of real-time monitoring and detection of suspicious behaviors in public spaces. By employing sophisticated algorithms to analyze live video feeds, the system can accurately identify instances where individuals abandon baggage, enabling security personnel to respond promptly and mitigate potential threats. Moreover, the system's ability to distinguish between regular human activities and suspicious behavior minimizes false alarms, thereby optimizing operational efficiency and resource utilization. The implementation of this technology not only enhances the safety and security of public spaces but also underscores the importance of leveraging innovative solutions to address evolving security challenges in an increasingly complex threat.

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

GOLD PRICE PREDICTION

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.K.Jeyaganesh Kumar

Assistant Professor, AI

Submitted by

ARTHI J S [927621BAL002]

KAVIYA N [927621BAL024]

NANDHINI S [927621BAL031]

VAISHNAVI A S [927621BAL059]

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 **"GOLD PRICE PREDICTION"** is the Bonafide work of **"ARTHI JS (927621BAL002),KAVIYA N (927621BAL024),NANDHINI S (927621BAL031) and VAISHNAVI A S (927621BAL059)"** 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/AI
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 financial strength of the country is reflected by its gold reserves. Several individuals and companies have participated in gold reserves in addition to the government departments. This change in gold price has attracted more investors for investments in gold. To analyze the correlation between the economic variables and the gold prices, there are several studies available. The project “Gold price prediction” aims to predict the price of gold using machine learning We use the Supervised learning algorithms like Multiple linear regression, Random Forest regressor and Gradient boosting to train a model for predicting the gold price and to determine whether to buy a gold or not.

CONCLUSION

The main aim of this study is to predict the gold price that is influenced by the economic variables such as stock profit exchange, silver price, EUR/USD, United States oil ETF. In this study, we used the machine learning algorithms such as multiple linear regression, random forest and gradient boosting to predict the price of gold accurately. Considering the results obtained, we conclude that the random forest model performed better than the other models. For future work, we can improve the results and predict the price more accurately by incorporating the other factors such as gold production, crude oil price, platinum price, inflation to the data.

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

SIGN LANGUAGE RECOGNITION SYSTEM

Submitted in partial fulfillment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

SANCHANA.S.S (927621BAL044)
SHAHANA.S (927621BAL047)
SHANKARISREE.S (927621BAL048)
SUWETHA.K (927621BAL055)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR-639113

APRIL 2023

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

BONAFIDE CERTIFICATE

Certified that this project report "SIGN LANGUAGE RECOGNITION SYSTEM" is the Bonafide work of **"SANCHAHA SS (927621BAL044), SHAHANA S(927621BAL047),SHANKARISREE S(927621BAL048), SUWETHA K(927621BAL055)"** 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 AI
M.Kumarasamy college of Engineering
Thalavapalayam, Karur-639113

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR.

SIGNATURE

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

ABSTRACT

Sign Language is mainly used by deaf (hard hearing) and dumb people to exchange information between their own community and with other people. It is a language where people use their hand gestures to communicate as they can't speak or hear. Sign Language Recognition (SLR) deals with recognizing the hand gestures acquisition and continues till text or speech is generated for corresponding hand gestures. Here hand gestures for sign language can be classified as static and dynamic. However, static hand gesture recognition is simpler than dynamic hand gesture recognition, but both recognition is important to the human community. We can use Deep Learning Computer Vision to recognize the hand gestures by building Deep Neural Network architectures (Convolution Neural Network Architectures) where the model will learn to recognize the hand gestures images over an epoch. Once the model Successfully recognizes the gesture the corresponding English text is generated and then text can be converted to speech. This model will be more efficient and hence communicate for the deaf (hard hearing) and dump people will be easier. In this paper, we will discuss how Sign Language Recognition is done using Deep Learning.

CONCLUSION

As a conclusion sign language recognition is able to predict the signs by the movement and actions of our hand points.By already created datasets, it can be trained and tested to create a model.The model consists of all data of our sign movements. By running this model we can Predict the signs accurately.

A Minor Project Report

On

AVATHAR CREATION USING FACE RECOGNITION

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

MR.R.VIJAYAGANTH

Assistant Professor, AI

Submitted by

JEYA KRISHNA .G	- 927621BAL022
NITHISH KUAMR M	-927621BAL032
SHESHANTH R.S	- 927621BAL050
SRI RAGAVENDIRAN.N	- 927621BAL052
SRIVIVASA ARAVINDH.S	- 927621BAL053
MOHAN KUMAR.B	-927621BAL303

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 **"AVATHAR CREATION USING FACE RECOGNITION"** is the Bonafide work of **JEYA KRISHNA G(927621BAL022), NITHISH KUMAR M(927621BAL032), SHESHANTH R.S(927621BAL050), SRI RAGAVENDIRAN N(927621BAL052), SRINIVASA ARAVINDH S(927621BAL053), MOHAN KUAMR B(927621BAL303)** 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.VIJAYAGANTH
ASSISTANT PROFESSOR
Department of AI
M.Kumarasamy college of Engineering
Thalavapalayam, Karur-639113

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR.

SIGNATURE

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

ABSTRACT

The Avatar Creation using Face Recognition project is a pioneering endeavor that leverages advanced facial recognition technology to generate personalized digital avatars. In an era where digital interactions are increasingly prevalent, the ability to create lifelike avatars has significant implications for applications ranging from virtual reality and gaming to social media and online communication platforms. This project aims to provide users with a user-friendly and accurate method for translating facial features into dynamic and expressive avatars, enhancing the way individuals represent themselves in the digital realm.The project commences with the implementation of state-of-the-art face recognition algorithms capable of accurately capturing and analyzing facial features. Leveraging deep learning models and computer vision techniques, the system ensures precision in recognizing key facial landmarks, expressions, and unique characteristics. Subsequently, this wealth of facial data is utilized to construct realistic and customization avatars that faithfully mirror the individual's physical appearance, capturing nuances such as expressions, emotions, and facial gestures.Furthermore, the Avatar Creation using Face Recognition project explores the potential for personalization and customization, allowing users to fine-tune various aspects of their avatars. From selecting hairstyles and accessories to adjusting facial expressions, users have the flexibility to create avatars that authentically represent their identity. As digital communication continues to evolve, this project stands at the forefront, offering a novel and engaging way for individuals to curate their online presence through lifelike digital representations.

CONCLUSION

In conclusion, the Avatar Creation using Face Recognition project represents a significant stride in the realm of digital identity and personalization. By harnessing the power of advanced face recognition algorithms and cutting-edge computer vision techniques, this project offers a seamless and accurate means of translating facial features into dynamic, expressive avatars. The potential applications of this technology are vast, extending beyond entertainment and gaming to reshape how individuals present themselves in virtual spaces, social media, and online communication platforms.The success of the project lies not only in its ability to create lifelike avatars but also in providing users with a highly customization experience. The project recognizes the importance of personal expression, allowing users to fine-tune their avatars to mirror their unique identities accurately. From facial expressions to hairstyle choices, the level of customization empowers users to create avatars that go beyond mere representation, fostering a deeper connection between the digital persona and the real-world individual. Looking forward, Avatar Creation using Face Recognition stands as a testament to the continual evolution of technology in enhancing digital experiences. As virtual interactions become increasingly integral to our lives, this project contributes to the ever-expanding landscape of digital identity, offering a novel and engaging way for users to authentically express themselves in the evolving digital 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

TEXT-TO-IMAGE USING LEAP AI

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of
Mr.P.Suresh

Assistant Professor, AI

Submitted by

1. BHARATH PRIYAN S - 927621BAL007
2. JAMPUGESHWARAN S - 927621BAL019
3. SARATHI S - 927621BAL045
4. SULAIMAAN S - 927621BAL054

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
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 **"TEXT-TO-IMAGE USING LEAP AI"** is the Bonafide work of **"BHARATH PRIYAN S(927621BAL017), JAMPUGESHWARAN S(927621BAL019), SARATHI S(927621BAL045), SULAIMAAN S(927621BAL054)"** 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.

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR.

SIGNATURE

Mrs.P.VIDHYA

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

This project introduces a groundbreaking approach to text-to-image synthesis leveraging the innovative Leap AI technology. The primary goal is to bridge the semantic gap between textual descriptions and visual representations by employing advanced deep learning techniques. Leap AI, an emerging artificial intelligence platform, is utilized to enhance the generation of realistic and contextually relevant images from textual input. The methodology involves training a deep neural network architecture with a vast datasets of paired text and image samples, enabling the model to learn intricate correlations and nuances in language and visual elements. Leveraging the capabilities of Leap AI, the model demonstrates an unprecedented ability to generate high-quality images that accurately reflect the details described in the input text. This project addresses challenges in previous text-to-image synthesis methods by incorporating Leap AI's sophisticated algorithms, resulting in improved coherence, diversity, and realism in the generated images. The implications of this research extend to various fields such as virtual environments, content creation, and computer-aided design, where the ability to seamlessly translate textual concepts into visually compelling representations is of paramount importance. The presented findings showcase the potential of the Text-to-Image synthesis model using Leap AI, offering a glimpse into a future where artificial intelligence plays a pivotal role in transforming textual descriptions into vivid and lifelike visual content. the project emphasizes the adaptability of the proposed approach, showcasing its potential for customization across various domains. By fine-tuning the model on domain-specific datasets, it becomes a versatile tool for industries such as fashion, architecture, and advertising, where tailored image synthesis based on textual input is invaluable. The research outcomes highlight the model's robustness in handling ambiguous or abstract textual descriptions, showcasing its ability to infer and visualize complex concepts. This adaptability positions the Text-to-Image synthesis using Leap AI as a cutting-edge solution for creative professionals and industries seeking efficient and imaginative content generation. In conclusion, the project marks a significant advancement in the realm of AI-driven content creation. The integration of Leap AI technology elevates the state-of-the-art in text-to-image synthesis, offering a powerful tool that not only meets technical benchmarks but also addresses ethical considerations. The potential applications across diverse industries underscore the transformative impact of this research, paving the way for a future where AI plays a pivotal role in shaping visual narratives .

CONCLUSION

In conclusion, the Text-to-Image synthesis project utilizing Leap AI represents a groundbreaking leap forward in the realm of artificial intelligence and content creation. The combination of sophisticated deep learning techniques and the ethical principles embedded in Leap AI has resulted in a model that not only excels in generating realistic and contextually relevant images from textual descriptions but also ensures fairness and inclusivity in its outputs. This research not only showcases technical excellence but also underlines the adaptability and versatility of the proposed approach across diverse industries. The ability to fine-tune the model for specific domains, coupled with its robust handling of abstract or ambiguous textual inputs, positions it as a transformative tool for professionals in fields ranging from virtual environments to advertising and beyond. As we look ahead, the project's outcomes suggest a future where AI-driven content creation becomes an integral part of creative processes, significantly reducing the gap between imagination and visualization. The ethical considerations addressed in this research underscore the commitment to responsible AI practices, paving the way for a future where AI technologies empower industries while upholding ethical standards. In essence, the Text-to-Image synthesis using Leap AI not only contributes to the cutting edge of technology but also reflects a conscientious approach towards the responsible development and application of artificial intelligence in shaping the visual landscapes of tomorrow. Beyond its technical and ethical contributions, the project opens avenues for further exploration and collaboration within the artificial intelligence community. The insights gained from this research can serve as a foundation for future endeavors in refining text-to-image synthesis models, pushing the boundaries of creativity and imagination. Moreover, the successful integration of Leap AI's ethical guidelines sets a precedent for the responsible development of AI technologies. As AI continues to play an increasingly pervasive role in various aspects of society, it becomes imperative to prioritize ethical considerations. The model's commitment to mitigating biases and ensuring fairness aligns with the growing importance of ethical AI in shaping a responsible and inclusive technological landscape.

A Minor Project Report

On

OBJECT DETECTION DRONE

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mrs.P.VIDHYA

Assistant Professor, AI

Submitted by

KARTHICK.P (927621BAL023)

MITHUN KRISHNA.G.S (927621BAL029)

RAJESH.V (927621BAL038)

THARUN.P.V (927621BAL057)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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 **"OBJECT DETECTION DRONE"** is the Bonafide work of **"KARTHICK P(927621BAL023), MITHUN KRISHNA GS(927621BAL029),RAJESH V(927621BAL038), THARUN PV(927621BAL057)"** 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 AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR

SIGNATURE

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

ABSTRACT

The Objective is to detect of objects using You Only Look Once (YOLO) approach. This method has several advantages as compared to other object detection algorithms. In other algorithms like Convolution Neural Network, Fast Convolution Neural Network the algorithm will not look at the image completely but in YOLO the algorithm looks the image completely by predicting the bounding boxes using convolution network and the class probabilities for these boxes and detects the image faster as compared to other algorithms. Finally, this project helps to count number of people are entered and exited in a particular enterence.

CONCLUSION

In this paper, we proposed about YOLO algorithm for the purpose of detecting objects using a single neural network. This algorithm is generalized, it outperforms different strategies once generalizing from natural pictures to different domains. The algorithm is simple to build and can be trained directly on a complete image. Region proposal strategies limit the classifier to a particular region. YOLO accesses to the entire image in predicting boundaries. And also it predicts fewer false positives in background areas. Comparing to other classifier algorithms this algorithm is much more efficient and fastest algorithm to use in real time.

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

AI BASED SMART INVENTORY FOR GROCERIES

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.K.JEYAGANESH KUMAR

Assistant Professor, AI

Submitted by

JAYASURYA K (927621BAL021)
PRASANTH S (927621BAL036)
RAMPRASANTH P S (927621BAL040)
SIBHISARAN S (927621BAL051)
THULASIDHARAN B (927621BAL058)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR-639113

APRIL 2023

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

BONAFIDE CERTIFICATE

Certified that this project report"AI BASED SMART INVENTORY FOR GROCERIES" is the Bonafide work of **"JAYASURYA K(927621BAL021),PRASANTH S(927621BAL036), THULASIDHARAN B(927621BAL058), SIBHISARANS(927621BAL051), RAM PRASANTH PS(927621BAL040)"** 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.

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR.

SIGNATURE

Mr.K.JEYAGANESH KUMAR

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

This project is mainly focused on beneficiary of both customer’s and the shop owners. Now a days people don’t want argue with the shop worker's and this project more suitable for them. And the people who are handicapped, not able to move to one place to another to buy the product can get benefit. And for shop owners side, it will automatically check the stock availability and managing it. And it analyze the product’s quantity. If any product is below the limit, it will send the email to the certain dealer who send the specific product stock to the shop. And another benefit for shop worker’s are based on the previous sales history, it will predict the future demand of that product.

CONCLUSION

Artificial intelligence is used to build smart warehouses, automate the fulfillment process, and reduce human error. Overall this software reduce the time of product management. Combining human and artificial intelligence is the key to technology-led innovation in supply chain management.the supply chain management system project has been successfully implemented, providing significant benefits to the organization.

The project involved a thorough analysis of the existing supply chain processes, identification of areas for improvement, and the development of a comprehensive plan for the new system. The new system has streamlined processes, increased visibility, and reduced costs, resulting in improved customer satisfaction and overall business performance.

The success of the project can be attributed to the collaborative efforts of various stakeholders, including the project team, supply chain partners, and senior management. The project team leveraged the latest technology and best practices to design and implement the new system while ensuring a seamless transition from the old system. Ongoing monitoring and evaluation of the system will be crucial to ensure continuous improvement and adaptability to changing market conditions.

Overall, the supply chain management system project has demonstrated the importance of an effective and efficient supply chain system for the success of any business. The benefits of the new system will be felt for years to come, enabling the organization to meet customer demands and stay competitive in the market.

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

EFFICIENT METHOD FOR TRANSPORTATION BOOKING WITHOUT A MOBILE APP

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mrs.S.LAVANYA

Assistant Professor, AI

Submitted by

CIBIRAJAN V (927621BAL008)

HARIKISHORE S (927621BAL013)

SAKTHIVEL S (927621BAL043)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR-639113

APRIL 2023

M.KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Anna University, Chennai)

BONAFIDE CERTIFICATE

Certified that this project report **"EFFICIENT METHOD FOR TRANSPORTATION BOOKING WITHOUT A MOBILE APP"** is the Bonafide work of **"CIBIRAJAN V (927621BAL008), HARIKISHORE S (927621BAL013), SAKTHIVEL S(927621BAL043)"** 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 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

Transportation booking without a mobile app is a web application, which is created to book any mode of transport at ease without the burden of installing an extra app on mobile. A web application is the solution for the ease of use. The proposed web application will have two sorts of users, one is a transporter who is willing to take customer / goods and other is a customer who wants to ship their materials. Initially, the transporter who is an owner of the vehicle will register on to the application about his travel to the destination along with vehicle details and their pick-up location. Customers will be asked for permission to access their current location once the user enters into the web application. After the location access is granted, the website will list the available transportation modes near to the customer's location based on the transporter's registration. Customers can choose any mode of transportation and fill their necessary details. One time password (OTP) will be sent to the registered mobile number and the same will be verified by the system. Further, it shows the availability of seats/ space for loading lockage to be selected by the customer. Upon the customer's confirmation on seats, they will be redirected to the payment gateway. The tickets will be confirmed once the payment is done. Customers will receive the confirmation message along with the details of boarding point, time of travel and the dropping point to the registered mobile number.

CONCLUSION

This project allows making transportation easy with the help of web applications. The web Application will show the available transportation modes which are nearer to the customers location wherever they are and allowed to choose the needed transportation. Ticketing system is introduced for booking confirmations. Also, the services provided by the web application are not only for customers to travel as passengers but also goods/couriers in a safe way.

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

Human Action Recognition System

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

1. HARINI M - 927621BAL014
2. HARSHINNI V - 927621BAL016
3. MONISHA K M - 927621BAL030
4. NIVETHA N - 927621BAL033

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR-639113

APRIL 2023

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

BONAFIDE CERTIFICATE

Certified that this project report"**Human Action Recognition System**"is the Bonafide work of **"HARINI M (927621BAL014), HARSHINNI V(927621BAL016), MONISHA K M (927621BAL030), NIVETHA N (927621BAL033)"** 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.

Department of Artificial Intelligence & Machine Learning
M.K.C.E KARUR.

SIGNATURE

Mr.P.SURESH

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

This project aims to develop a Human Action Recognition System using deep learning techniques. The system will utilize data consisting of realistic videos taken from YouTube which differentiates this data set from most of the other available action recognition data sets as they are realistic and are not staged by actors, to accurately identify and classify different human activities such as walking, running, and sitting. The system will be designed to work in real-time and will provide accurate and reliable results. The goal of this project is to develop a system that can be used to monitor human activities and provide valuable insights into human behaviour, which can be used to improve enhance sports performance, and increase security.

CONCLUSION

On human action recognition system successfully recognizes various actions performed by humans with high accuracy using deep learning techniques. The system has the potential to be applied in various fields including sports, surveillance, and entertainment, to improve efficiency and accuracy. Further research can improve the system's performance, prediction and expand its 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

OBJECT DETECTION IN VIDEO SURVEILLANCE

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mr.P.Suresh

Assistant Professor, AI

Submitted by

ABISHEK.S (927621BAL001)
KEERTHIVASAN.E (927621BAL025)
PERIYASAMY.M (927621BAL034)
RAGHU SASTHA.P.M (927621BAL037)
ASWIN KUMAR.B (927621BAL301)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR –639113

APRIL 2023

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

BONAFIDE CERTIFICATE

Certified that this project report "OBJECT DETECTION IN VIDEO SURVEILLANCE" is the Bonafide work of **"ABISHEK.S (927621BAL001), KEERTHIVASAN.E (927621BAL025), PERIYASAMY.M (927621BAL034), RAGHUSASTHA.P.M (927621BAL037), ASWINKUMAR.B (927621BAL301)"** 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.P.SURESH

ASSISTANT PROFESSOR

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

Department of Artificial Intelligence & Machine Learning
M.K.C.E
KARUR

SIGNATURE

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

ABSTRACT

This research focuses on advancing object detection in video surveillance by employing a unified framework based on deep learning techniques, specifically convolutional neural networks (CNN's) and recurrent neural networks (RNNs). The model is trained on diverse datasets to ensure adaptability to real-world scenarios, and optimization techniques like model quantization and parallelization are applied for real-time processing. The integration of edge computing is explored to enhance system responsiveness. A novel annotation tool is developed for comprehensive datasets creation, including temporal annotations for understanding object trajectories. The proposed system demonstrates superior performance in terms of accuracy, speed, and adaptability, with potential applications in improving security and situational awareness across various domains.

CONCLUSION

In conclusion, this research presents a robust and efficient approach to object detection in video surveillance, addressing key challenges through the integration of deep learning techniques, optimization strategies, and novel datasets annotation tools. The proposed unified framework, leveraging CNN's and RNNs, showcases superior performance in terms of accuracy and speed, making it well-suited for real-world deployment. The exploration of edge computing further enhances the system's responsiveness, crucial for applications requiring rapid decision-making. The development of a comprehensive annotation tool facilitates the creation of datasets that accurately represent the complexities of diverse scenarios. Overall, this research contributes to the advancement of video surveillance technology, offering a promising solution to improve security, safety, and situational awareness across various domains, from smart cities to critical infrastructure protection. The proposed approach lays the foundation for future developments in the field, fostering more effective and adaptable video surveillance systems.

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 READING BASED ON GANS

Submitted in partial fulfilment of requirements for the reward

The Degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Under the guidance of

Mrs.P.Vidhya

Assistant Professor, AI

Submitted by

BALAKUMAR M D - 927621BAL005

GOWSIDHARAN S T - 927621BAL012

KRITHICROSON R - 927621BAL026

PERIYASAMY T - 927621BAL035

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
M. KUMARASAMY COLLEGE OF ENGINEERING

(Autonomous)

KARUR –639113

APRIL 2023

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

BONAFIDE CERTIFICATE

Certified that this project report **"SMART READING BASED ON GANS"** is the Bonafide work of **"BALAKUMAR M D(927621BAL005), GOWSIDHARAN S T(927621BAL012), KRITHICROSON R(927621BAL026), PERIYASAMY T (927621BAL035)"** 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 AI

M.Kumarasamy college of Engineering

Thalavapalayam, Karur-639113

Department of Artificial Intelligence & Machine Learning
M.K.C
KARUR.

SIGNATURE

Dr.N.M.SARAVANAKUMAR

HEAD OF THE DEPARTMENT

Department of AI

M.Kumarasamy college of Engineering

Thalavapalayam, karur-639113

ABSTRACT

In an era where attention spans are dwindling and time is precious, traditional text-based learning faces a formidable foe: lack of engagement. This project tackles this challenge head-on by leveraging the cutting-edge technology of Generative Adversarial Networks (GANs) to develop an innovative learning platform that transforms dry textbooks into captivating video content. Imagine students ditching dense paragraphs for dynamic videos, complete with visuals, animations, and even narration – a feast for the senses that caters to diverse learning styles and ignites a passion for knowledge acquisition. This project's potential doesn't stop there; it aims to bridge the gap between traditional learning and modern attention spans, particularly for school students who often find conventional methods tedious and ineffective. By breathing life into educational materials, we can revolutionize the way we learn, foster deeper understanding, and empower students to become active participants in their own educational journeys. Buckle up, the following pages dive deep into the technical wizardry behind this transformative project, outlining its functionalities, challenges, and anticipated impact on the educational landscape. Prepare to witness the dawn of a new era in learning, where knowledge dances to the captivating rhythm of video.

CONCLUSION

As we conclude this exploration of our GAN-powered learning platform, a sense of anticipation for its potential resounds. We envision classrooms no longer confined to static pages, but bursting with the vibrant energy of video-based learning. Students, once burdened by dense paragraphs, will now dance with information brought to life through animation and narration. This shift promises to ignite curiosity, cater to diverse learning styles, and ultimately, foster a generation of passionate and engaged learners. While challenges in technical development and user adoption remain, the transformative power of this technology compels us forward. In the pages yet unwritten, we will meticulously address these hurdles, paving the way for a future where knowledge flows freely, fueled by the captivating rhythm of video. This project is not merely a tool; it is a beacon, illuminating a path towards a more accessible, engaging, and ultimately, more effective learning experience for all.

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 Machine Learning.

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) 2. Mr.R.StalinBabu AP/AIML 3.Mrs.Amsa AP/AIDS	07.10.2022 & 08.10.2022

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	:	30/09/22 Dr. N.M.SARAVANA KUMAR, M.E., Phd., PROF & HEAD Department of Artificial Intelligence & Machine Learning M. Kumarasamy College of Engineering Thalavapalayam, Karur - 639 113. (Sign with Seal)
12	Approval from Dean	:	1/10/22 (Sign with Seal) PRINCIPAL, M.Kumarasamy College of Engineering, THALAVAPALAYAM, KARUR - 639 113

Note: The Form should be submitted two weeks prior to the departure

Approval after checking (Check List)

Mode of Travel		Approval - Industry		Faculty Details		Students Details		Undertaking Students		Undertaking Faculty		Accommodation	

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.

VIDHYA P <vidhyap.ai@mkce.ac.in>

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 i

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,

IROHUB

HR DEPARTMENT

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

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

VIDHYA P <vidhyap.ai@mkce.ac.in> Thu, Sep 22, 2022 at 4:58 PM
To: vidhyap18@gmail.com

[Quoted text hidden]

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.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	

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 AI&ML Boys Name List

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

M.KUMARASAMY COLLEGE OF ENGINEERING

Department of AI&ML Girls Name List

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

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

M.KUMARASAMY COLLEGE OF ENGINEERING

Department of AI&DS Boys Name List

KR

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

Department of AI&DS Girls Name List

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

List of Students Details – Copy attached

Annexure 4

Accommodation

Annexure 5

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, Shenoys, 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

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	
2.	927621BAL030	MONISHA KM	
3.	927621BAL0H7	S. SHAHANA	
4.	927621BAL0H8	S. SHANKARISREE	
5.	927621BAL0HH	S. S. SANCHANA	
6.	927621BAL055	K. SUWETHA	
7.	927621BAL033	N. NIVETHA	
8.	927621BAL014	M. HARINI	
9.	927621BAL016	V. HARSHINNI	
10.	927621BAL022	N. KAVIYA	
11.	927621BAL002	J.S. ARTHI	
12.	927621BAL059	A.S. VAISHNAVI	
13.	927621BAL010	B. DHARSHINI	
14.	927621BAL020	G. JANANI SRI	
15.	927621BAL060	N. VAISHNAVI	
16.	927621BAL061	P.S. VARSHIGA	
17.	927621BAL057	P.V. Tharun	
18.	927621BAL023	P. karthick	
19.	927621BAL013	S. Harikishove	
20.	927621BAL043	S. Sakthivel	
21.	927621BAL041	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	927621BAL034	M. Periyasamy	
24	927621BAL022	G. Jeyakrishna	
25	927621BAL053	S. Srinivasa Aravindh.	
26	22LAL003	B. Mohan Kumar	
27	927621BAL050	R.S. Shesharth	
28	927021BAL007	S. Bharath Priyam.	
29	927621BAL003	S. Arun kumar	
30	927621BAL006	B. T. Bharani	
31	927621BAL062	S. Vignesh	
32	927621BAL027	Manoj Kumar SG	
33	927621BAL046	Saravana Haris	
34	927621BAL028	Mithilesh	
35	927621BAL032	MITHISH KUMAR S	
36	927621BAL004	Balaji	
37	927621BAL011	Gowtham.	
38	22LAL002 ~~927~~	Vedhanth	
39	927621BAL054	SULAIMAAN	
40	927621BAL063	VISHWA PRVEEN	
41	927621BAL012	S.T Gowsidharan	
42	927621BAL008	V. Cibirajan	

* 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	927621BAL026	Krithicroson.R	
44	927621BAL005	M.D.Balakumar	
45	927621BAL017	M.Hemanth	
46	927621BAL001	S.Abishek	
47	927621BAL058	B.T.Bavadharan	
48	927621BAL051	S.Sibhiscaran	
49	927621BAL021	J.Jayasurya	
50	927621BAL036	S.Prasanth	
51	927621BAL029	G.S.MATHUN KRISHNA	
52	22LAL001	N.K.DHANUSH	
53	927621BAL065	Sarathi	
54	927621BAL035	T.periyadamy	
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.	927621BAD050	S. Sowndhar	S. Sowndhar
2.	927621BAD059	Vimal mathew. B	B. Vimal
3.	927621BAD043	P. Saiprashanna	P. Saiprashanna
4.	927621BAD040	PRAVEEN.T	
5.	927621BAD045	SATHEESHKUMAR K	K.
6.	927621BAD033	S. Navaneeth	S. Nath.
7.	927621BAD042	M.A Saisethu	
8.	927621BAD051	Sree Aswin Rajha	
9.	927621BAD028	LINGESH. S	S.
10.	927621BAD003	ABISHAK D	D. Abishak
11.	927621BAD018	Joshika Mangai. B	J. B
12.	927621BAD027	A. Libeena Aswatha	A. Libeena
13.	927621BAD048	R.S. Shruthi	R.S Shruthi
14.	927621BAD012	S.R. Gurumeeta	S.R. Gurumeeta
15.	927621BAD024	S. Keerthika	S. Keerthi
16.	927621BAD019	R. Jothika	R. Jothika
17.	927621BAD036	M. Vinodha.	Vinodha. M
18.	927621BAD002	B. AARTHI	B. Aarthi
19.	927621BAD062	C. Vishnu priya	
20.	927621BAD029	M. Madhumithra	M. Madhumithra
21.	927621BAD030	R. Mahalakshmi	R. Mahalakshmi

* 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
23	927621BAD041	RAHUL.R	R. Rahul
24	927621BAD010	DHINAGARAN.V.P	
25	927621BAD025	N.Krishna	
26	927621BAD039	S.Prasanth	
27	927621BAD015	V.Harish	
28	927621BAD046	R.M.SAYNANE	R.M
29	927621BAD061	R.Vishal	R.V
30	927621BAD001	V.S.Aadhi Nowtham	V.S.
31	927621BAD058	T-THANISH SURIYA	T. T
32	927621BAD005	VS. Aswin Sudhanth	
33	927621BAD026	K. Lavanya devi	K. L
34	22LAD007	A. Hareesh kumar	A. Hareesh
35	927621BAD007	B.Devaprasadh	B.D
36	927621BAD038	R. Prasana	
37	927621BAD037	M. Praniskka	N. Praniskka
38	927621BAD035	Y.S.Nikitha	Nikitha
39	927621BAD052	R. Subaa	R Subaa
40	927621BAD055	G. Supriya	G. Supriya
41	927621BAD060	A.S. Vinoharsitha	A.S
42	927621BAD016	M. Harshini	

* The Undertaking should repeat in all pages

Annexure 6 – III

UNDERTAKING LETTER - STUDENTS

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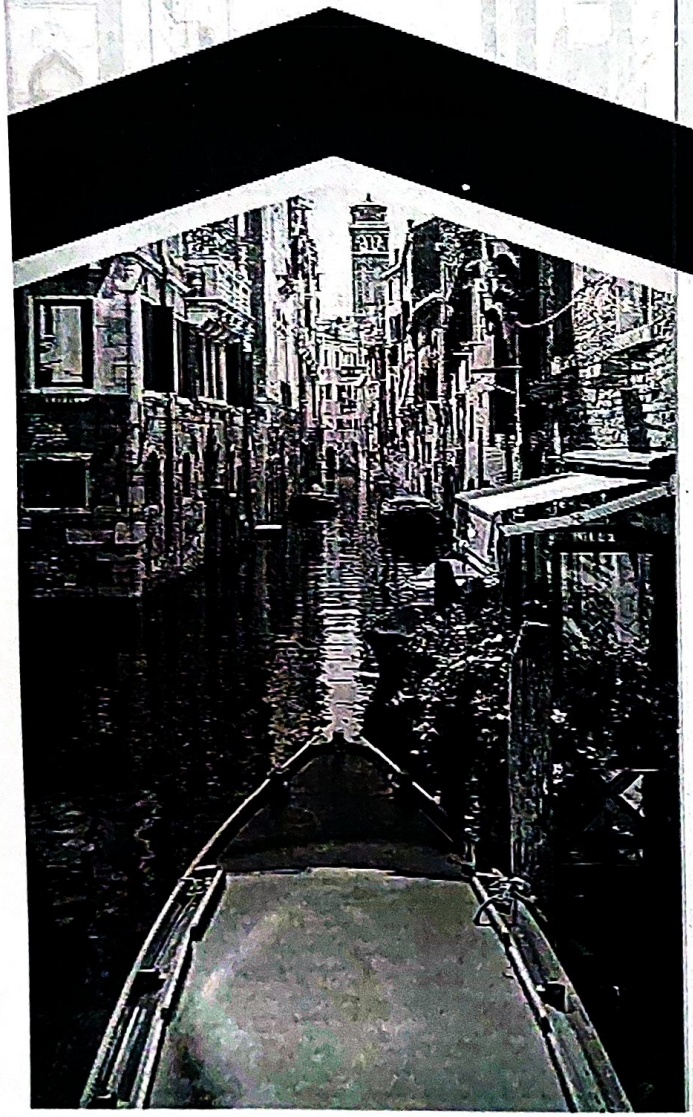
Sl.No	Reg.No	Name	Signature
43	[illegible]	[illegible]	[illegible]
44	[illegible]	[illegible]	[illegible]
45	927621BAD014	HARISH SRIRAJ.N	Harish Sriraj.N
46	[illegible]	[illegible]	[illegible]
47	927621BAD022	KAVIN.M	M.Kavin
48		MOHANAWARNA.MG	
49		SANJAY.S	
50			
51			
43	927621BAD034	P.S.Navaneetha Krishnan	P.S.Navaneetha Krishnan
44.	927621BAD022	[illegible] Kavin.M.	M.Kavin
45	927621BAD032	M.G.Mohanawarma	M.G.Mohanawarma

* 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.