List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
1	CSE	Prof. Deepthi M B	4VP19CS095 4VP20CS040 4VP20CS041 4VP20CS054	Machine Translation for Tulu	Functional	The project aims to create an efficient system for translating Tulu audio into Kannada in real-time, utilizing advanced deep learning methods such as convolutional neural networks (CNNs).The system offers a user-friendly interface for uploading Tulu audio files, which are promptly converted into written Kannada text and synthesized speech. Rigorous testing and validation ensure the system's accuracy and reliability. By incorporating their insights and expertise, the system can better capture the nuances of Tulu language and Kannada culture, resulting in more accurate and culturally relevant translations. Future iterations seek to expand translation capabilities to encompass multiple languages and introduce features for live translation, thereby fostering linguistic inclusivity and accessibility. By embracing diversity and collaboration, the project strives to become a catalyst for cross-cultural communication and understanding, transcending linguistic barriers for a more interconnected global community. By addressing these dimensions, the project aspires to create a translation system that not only bridges linguistic divides but also celebrates the richness and diversity of language and culture.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
2	CSE	Prof. PradeepKumar K G	4VP20CS001 4VP20CS003 4VP20CS046 4VP20CS049	Voice Controlled Wheelchair Using Raspberry Pi	Functional	In today's technological landscape, there is a growing emphasis on developing solutions to assist vulnerable populations, such as the elderly and disabled. One notable innovation is a Voice-Controlled Wheelchair System designed to enhance mobility and support for individuals with limited physical capabilities. This system utilizes a Raspberry Pi board as its core component, integrating features like voice recognition, object detection, and text-to-speech capabilities. By leveraging the Raspberry Pi and motor driver, the wheelchair can interpret voice commands and detect obstacles in its path, providing a user-friendly and efficient way to Navigate various environments. Experimental results demonstrate the effectiveness of the system in responding to voice commands, accurately navigating spaces, and offering essential assistance to users. This innovative technology represents a significant step forward in improving the independence and quality of life for elderly and disabled individuals, empowering them with enhanced mobility and support. This innovative approach underscores the transformative impact of technology in promoting inclusivity and improving the overall well-being of vulnerable population

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
3	CSE	Dr. Jeevitha B K	4VP20CS002 4VP20CS011 4VP20CS024 4VP20CS034	Eye sharp	Functional	The goal of this project is to create and build Eye Sharp, an innovative assistive hardware device that combines a camera and earphone to allow people with vision impairments to read books, papers, and other textual materials with ease. The Eye-Sharp technology extracts text from computer screens, documents, and real books by using sophisticated image processing algorithms. Text-to-speech technology is then used to transform the collected text into audio format, which is subsequently transmitted to the user through the built-in earphone. The camera on the smartphone makes use of adaptive optics and high-resolution imaging capabilities to guarantee accurate text recognition even in a variety of lighting situations and font styles and sizes. Furthermore, the Eye Sharp system has an easy-to-use interface that enables those with visual impairments to effortlessly operate the gadget with simple voice instructions.
4	CSE	Prof. Krishna Mohana A J	4VP20CS004 4VP20CS012 4VP20CS014 4VP20CS044	Interview Preparation Model Based On Deep Learning	Functional	In today,s rapidly advancing job market, effective preparation is paramount for candidates seeking to distinguish themselves. This project introduces an innovative interview preparation model driven by deep learning, aiming to address the multifaceted challenges applicants encounter. Leveraging cutting-edge technologies such as a resume tester, real-time speech analysis, and facial expression evaluation, the model offers tailored exercises and feedback to enhance candidates skills and confidence. By recognizing the importance of technical proficiency and interpersonal aptitude, the model provides a holistic assessment, refining both technical

List of Projects:2023-24

						knowledge and communication abilities. This abstract encapsulates the projects ambition to revolutionize interview readiness through the integration of deep learning techniques, laying the foundation for a comprehensive examination of its methodology, implementation and outcomes in subsequent sections of the report.

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
5	CSE	Prof. Roopa G K	4VP20CS005 4VP20CS042 4VP20CS050	YouTube Comments Sentiment Analysis	Functional	YouTube has become a significant platform for communication and expression, where people from all over the world can share their thoughts and opinions on various videos. These comments can provide a deep insight into what the viewer perceives and their feedback on the content. This allows content creators to understand the responses of viewers and make improvements to provide their audience with better quality and experience. This also holds immense potential for marketing companies to understand their client's expectations and sentiments from the videos. Also, it is useful for the general audience to know what other viewers have to say about the video and engage in discussions with each other. In the project, sentimental analysis will be performed on YouTube comments collected using the YouTube API.

List of Projects:2023-24

6	CSE	Dr. Lokesh M R	4VP20CS006 4VP20CS009 4VP20CS016 4VP20CS026	3D Point Cloud Processing using Panoramic image for Object detection	Functional	The Remote sensing application play major role in real-world critical application projects. This project introduces a novel approach, titled "3D Point-Cloud Processing Using Panoramic Images For Object Detection," aimed at enhancing the interpretability of laser point clouds through the integration of color information derived from panoramic images. Focusing on the context of Mobile Measurement Systems (MMS), where various digital cameras are utilized, the project addresses the challenges associated with processing panoramic images offering a 360-degreeview angle. The core objective is to develop a robust method for generating color point clouds by establishing a mathematical correspondence between panoramic images and laser point clouds. The collinear principle of three points guides the fusion process, involving the center of the Omnidirectional multi-camera system, the image point on the sphere, and the object point. Through comprehensive experimental validation, the project confirms the accuracy of the proposed algorithm and formulas, showcasing its effectiveness in generating color point clouds within MMS. This Project work contributes to the present development of 3D point-cloud processing, introducing a contemporary methodology for improved object detection through the fusion of panoramic images and laser point clouds.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
7	CSE	Prof. Thapaswini P S	4VP20CS007 4VP20CS010 4VP20CS023 4VP20CS032	Wild Animal Intrusion Detection System and Repelling Technology with Real-Time Alerts using IoT& Machine Learning	Functional	This project proposes a wild animal intrusion detection system and repelling technology with real-time alerts that utilizes IoT and machine learning technologies. The system is designed to detect the presence of animals in an area and use an appropriate repellent mechanism to deter them from entering the premises. The system comprises sensors that detect animal movement and send signals to a central processor that processes the data using machine learning algorithms. The algorithms are trained to identify specific animal patterns and behaviours, and trigger the repellent system accordingly. The repellent system utilizes non-lethal methods such as high-frequency sounds. The system is configurable and can be adapted to different types of animals, making it versatile and effective in various settings. The system is also designed to send alerts to the user's mobile device through android application in case of an intrusion, allowing for quick action and timely intervention. The proposed system can be used in residential areas, farms, wildlife reserves, or other areas where animal intrusion is a concern
8	CSE	Dr. Lokesh M R	4VP20CS008 4VP20CS028 4VP20CS037	Lip Reading to Text for Deaf and Dumb People	Functional	Lip reading to text for deaf and dumb people introduces a transformative solution aimed at enhancing communication for the deaf and dumb community through the development of a Lip Reading to Text Conversion system. Leveraging advanced computer vision techniques and deep learning algorithms, the system interprets and translates visual lip movements into real time, contextually relevant text. Key functionalities include language support for diverse communication needs, adaptability to various lip shapes and accents, and a user-friendly interface accessible through wearable devices. The system prioritizes real-time processing, ensuring seamless and instantaneous conversion for natural and fluid communication. Extensive testing with diverse scenarios involving deaf and dumb individuals validates the system's accuracy and effectiveness. By addressing the unique challenges faced by this

						community, the Lip Reading to Text Conversion system stands as a promising assistive technology, breaking down communication barriers and fostering inclusivity for individuals with hearing and speech impairments. Future project work involves refining adaptability, expanding language support, and exploring additional modalities for comprehensive communication solutions.

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
9	CSE	Prof. RadhikaShetty D S	4VP20CS013 4VP20CS015 4VP20CS045 4VP20CS055	Sentiment Analysis In Yakshagana Lyrics	Functional	Technology has revolutionized the traditional art form of Yakshagana, influencing its dissemination, accessibility, and performance dynamics within cultural contexts. Yakshagana is deeply rooted in Karnataka's cultural landscape across fifteen districts, stands to enhance its preservation and reach through investments in technology. The identifying the raga and bhava is an important step in the Yakshagana Audio and is traditionally done by man power. Some people who are well known in the cultural field they can recoginize the raga and bhava.In order to understand the Yakshagana Audio, a project is designed to classify the raga and tala of different audio set. This project approach to sentiment analysis in Yakshagana audio using Convolutional Neural Networks (CNNs) and Random Forest Algorithm. By leveraging the power of CNNs in capturing spatial dependencies in data, we extract features from audio recordings of Yakshagana performances. We then employ these features to train a CNN model and Prediction done through Random Forest Algorithm capable of classifying the sentiment expressed in Yakshagana raga into predefined emotional categories. The proposed method offers a valuable tool for cultural researchers, performers, and enthusiasts to analyze and interpret the emotional content embedded within Yakshagana audio, thereby

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

						contributing to the preservation and appreciation of this unique art form.

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
10	CSE	Prof. Mohan A R	4VP20CS017 4VP20CS031 4VP20CS048 4VP20CS052	HSRP Number Plate Recognition	Functional	All vehicle owners must fix a High-Security Registration Plate (HSRP), under regulations of the Karnataka Transport Department and Ministry of Road Transport and Highways (MoRTH), because it is more secure than old registration plates and tamper-proof. The HSRP number plate recognition system represents a significant advancement in vehicle identification and tracking technology. It presents the development and implementation of a comprehensive system utilizing Streamlit for the user interface, Open CV for image processing and Easy OCR for number plate recognition. The user interface provides an intuitive platform for users to upload images containing vehicles with HSRP number plates and access recognition results and vehicle information. Open CV's image processing capabilities are leveraged to preprocess images, enhancing quality and isolating the number plate region for accurate recognition by Easy OCR. Through rigorous testing and experimentation, the system's performance is evaluated across various metrics, including functionality, accuracy, performance, usability, integration, and end-to-end operation. The results demonstrate the system's robustness, reliability and effectiveness in diverse scenarios and conditions. Continuous monitoring, maintenance, and optimization efforts ensure the system's ongoing performance and adaptability. Overall, the HSRP number plate recognition system offers a valuable solution for enhancing vehicle security, improving traffic management, and streamlining administrative processes.

List of Projects:2023-24

11	CSE	Prof. Savitha M	4VP20CS018 4VP20CS030 4VP20CS033 4VP20CS057	Visionary Streetlight Control	Functional	One of the most neglected sources of energy loss is streetlights that generate too much light in areas where it is not required. Energy waste has enormous economic and environmental effects. In addition, due to the conventional manual nature of operation, streetlights are frequently seen being turned ON during the day and OFF in the evening, which is regrettable even in the twenty-first century. This project introducesan Visionary Street Lighting System with integrated Accident Detection capabilities, designed to address energy efficiency and safety concerns in urban environments. Leveraging Internet of Things (IoT) technology, the system dynamically adjusts street light brightness based on ambient conditions and detects accidents in real-time. The primary objectives include maximizing energy savings through optimized street light operation and enhancing safety by promptly identifying and responding to accidents. The system incorporates a range of components including light sensors, IR sensors, a GSM module, and a buzzer, enabling comprehensive monitoring and control of street lighting infrastructure. Real-time accident detection is achieved through the integration of the You Only Look Once (YOLO) object detection algorithm, facilitating swift response and alerting authorities or emergency services as necessary. Results from the implementation demonstrate effective energy conservation and improved safety outcomes, highlighting the potential of IoT technology for efficient and responsive urban infrastructure management.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
12	CSE	Dr. Jeevitha B K	4VP20CS019 4VP20CS029 4VP20CS038	Elderly Care Companion	Functional	The project integrates various components, including smart sensors, artificial intelligence (AI), and human-computer interaction, to create a personalized and adaptable care companion for the elderly. The smart sensor network is deployed within the living space of the elderly individual to monitor activities of daily living, detect anomalies, and ensure a safe environment. Machine learning algorithms analyse the sensor data to identify patterns, predict potential health issues, and alert caregivers or emergency services when necessary. The AI-driven virtual companion serves as a personalized assistant, offering reminders for medication, appointments, and daily tasks. Natural language processing enables the companion to engage in conversations, providing companionship and mental stimulation for the elderly. The system is designed to learn and adapt to the unique preferences and routines of each individual, promoting a sense of familiarity and comfort. In addition to monitoring and assistance, the project incorporates features to encourage physical and cognitive activities. Interactive games, educational content, and exercise routines are integrated into the companion interface to promote mental and physical wellbeing. The companion can also facilitate virtual social interactions, connecting the elderly with family members, friends, or other users of the system through video calls and messaging. The project emphasizes user-friendly interfaces and accessibility, taking into consideration the potential challengesfaced by elderly individuals, such aslimited technological familiarity or physical impairments.
13	CSE	Prof. Shrinidhi A	4VP20CS020 4VP20CS021 4VP20CS051 4VP20CS059	Speak Sure	Functional	There are growing implications surrounding generative AI in the speech domain that enable voice cloning and real-time voice conversion from one individual to another. This technology poses a significant ethical threat and could lead to breaches of privacy and misrepresentation, thus there is an urgent need for AI generated fake

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

						voice detection system. In response, this project proposes the development of a robust fake voice detection system leveraging Convolutional Neural Networks. The system aims to accurately distinguish between authentic human voices and AI-synthesized imitations, thereby mitigating risks associated with voice spoofing attacks, impersonation, and misinformation. Key components of the proposed system include data collection, preprocessing, feature extraction, CNN model training, and evaluation. By analyzing comprehensive sets of acoustic features extracted from voice inputs, including formant frequencies, spectral characteristics, the CNN model learns to discern subtle differences between real and fake voices. Through rigorous testing and evaluation, the effectiveness of the fake voice detection system is validated, demonstrating its potential to enhance security, prevent fraud, and maintain trust in voice-based interactions across various domains. This project contributes to the advancement of AI-driven solutions for safeguarding digital communication ecosystems against emerging threats posed by AI-generated fake voices.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
14	CSE	Dr. Uma Pare	4VP20CS022 4VP20CS027 4VP20CS053 4VP20CS058	Healthcare monitoring for pregnant women using IoT and machine learning	Functional	In developing countries, most of the people live in the rural areas and medical systems are not amalgamated for sharing information. Mostly, pregnant women are unable to do their normal checkups at the early stages of pregnancy and this can lead to higher death counts in case of newborns and parents in the rural areas as well as in urban regions. Due to this situation, the women are facing an immense medical issues. In this project, The healthcare kit for pregnant women is a device that is designed to help pregnant women monitor their health and well-being. This kit is equipped with a variety of sensors that can track a woman's heart rate, temperature and other important metrics. It is to provide pregnant women with a convenient and easy way to track their health and identify any potential problems early on. By providing women with real-time data about their health, the kit can help them identify any potential problems early on and seek medical attention if needed.
15	CSE	Prof. Krishna Mohana A J	4VP20CS025 4VP20CS035 4VP20CS056 4VP20CS039	Alzheimer's Disease Detection	Functional	Diagnosis of Alzheimer's disease is commonly based on medical observations and assessment of clinical signs, including the characteristics of a variety of motor symptoms. However, traditional diagnostic approaches may suffer from subjectively as they rely on the evaluation of movements that are sometimes subtle to human eyes and therefore difficult to classify, leading to possible misclassification. In the meantime, early motor symptoms of AD may be mild and can be caused many other conditions. Therefore, test symptoms are often overlooked, making diagnosis of AD at an early stage challenging. To address these difficulties and to refine the diagnosis and assessment procedures of AD, machine learning methods have been implemented for classification of AD and healthy controls or patients with similar clinical presentations. Thus, helping medical institutes in early detection of Alzheimer's disease.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
16	CSE	Prof. Pradeep Kumar K G	4VP20CS036 4VP20CS043 4VP20CS047 4VP20CS060	Detection of Dental Cavity	Functional	Dental cavity detection is a crucial aspect of oral health maintenance, aiming to identify and address tooth decay in its early stages to prevent further damage. Advances in dental technology have led to the development of innovative diagnostic tools and techniques for accurate and efficient cavity detection. Utilizing various imaging modalities such as digital radiography, laser fluorescence, and intraoral cameras, dental professionals can now detect cavities with enhanced precision. Moreover, computer-aided detection systems and artificial intelligence algorithms have been integrated into the diagnostic process, offering automated analysis of dental images and aiding in the early identification of cavities. Abstract highlights the significance of these advancements in dental cavity detection, emphasizing the potential for early intervention and improved patient outcomes in oral healthcare.

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
17	CSE	Prof. Pramod Kumar P M	4VP20CS061 4VP20CS062 4VP20CS075 4VP20CS082	Smart Dry Coconut Grading System	Functional	Technological advancements can have powerful impact on the economic growth of agriculture in India. In the ever-evolving landscape of agricultural technology, the demand for efficient and intelligent systems to streamline processes continues to grow. This project presents a novel approach to enhance the classification of dry coconuts through the integration of Artificial Intelligence. The proposed Smart Dry Coconut Classification System leverages machine learning algorithms and computer vision techniques to automate the sorting and grading of dry coconuts based on various quality parameters. The system employs state-of-the-art deep learning models to analyze visual features such as size, color, texture, and shape of dry coconuts. A comprehensive dataset comprising diverse samples is utilized for model training, ensuring robust performance across different variations in coconut characteristics. The implementation of advanced image processing techniques allows for accurate feature extraction, enabling the AI system to make precise classifications. This project contributes to the advancement of agricultural technology by showcasing the practical application of AI in the domain of dry coconut classification. The proposed system not only addresses the challenges associated with manual sorting but also presents a scalable solution that can be adapted for various agricultural products. The integration of AI into the agricultural sector holds the potential to revolutionize traditional practices, leading to increased productivity and sustainability in the production of dry coconuts.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
18	CSE	Prof. Bharathi K	4VP20CS063 4VP20CS064 4VP20CS065 4VP20CS079	An IoT Based Smart Asthma Alerting System	Functional	The IoT-based smart asthma alerting system designed to monitor and alert asthma patients about environmental conditions that could trigger asthma attacks. Utilizing sensors to detect air quality, humidity, temperature, and particulate matter, the system continuously gathers data and analyzes it in real-time. When potentially harmful conditions are detected, such as high levels of pollutants or sudden changes in temperature or humidity, the system triggers alerts to notify asthma patients via their smartphones or wearable devices. By providing timely warnings, this system aims to empower asthma patients to take preventive measures, ultimately reducing the risk of asthma exacerbations and improving overall health outcomes. The IoT-based smart asthma alerting system employs a network of sensors strategically placed in indoor and outdoor environments frequented by asthma patients, such as homes, schools, and workplaces. These sensors communicate with a central hub or gateway, which processes the data and sends alerts to a dedicated mobile application installed on the users' smartphones or wearable devices.
19	CSE	Prof. Mohan A R	4VP20CS066 4VP20CS087 4VP20CS090 4VP20CS096	Object Detection with Audio Indication for Visually Impaired People	Functional	Our project aims to aid visually impaired individuals by providing real-time audio feedback for object detection. Using computer vision and audio processing technologies, we employ Convolutional Neural Networks for accurate recognition. Through a wearable device, carefully designed auditory cues convey essential information about detected objects, enhancing navigation and decision-making. This innovative integration of computer vision and audio indication fosters inclusivity, independence, and improved quality of life for the visually impaired. By revolutionizing their interaction with surroundings, our system promotes a more accessible and inclusive society.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
20	CSE	Prof. Pramod Kumar P M	4VP20CS067 4VP20CS078 4VP20CS087 4VP20CS098	Hastha Samudrika	Functional	The project titled 'Hasthasamudrika' with the aim of implementing key concepts in deep learning and image processing was found to meet all objectives. Utmost care has been taken to see that the results obtained are true and the underlying procedures are implemented in true form. The aim of this project is to present a novel software based selection method that can be used by anyone to get predictions by scanning only the image of their hands. It provides a user-friendly way to select the lines they want to interpret for future predictions. Palmistry is the art of characterization and foretelling the future through the study of the palm, also known as palm reading, or chirology. With the help of palm lines and fingers one can know the characteristics as well as can foretell the future of a person. We have used as our basic and core algorithm for computing and predicting the result. The proposed method will provide a novel way to read lines in an affective budget friendly way.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
21	CSE	Prof. Deepthi M B	4VP20CS068 4VP20CS084 4VP20CS092 4VP20CS109	Image Steganography and Block chain based login credentials and stashing	Functional	A project with the goal of strengthening user credentials security and privacy, which is frequently compromised by unauthorised individuals. The project suggests integrating block chain with specialised algorithms and steganography methods to securely store user credentials. The initiative intends to create a more secure method of storing sensitive data and preserving secrecy by utilising these strategies. The research essentially suggests a revolutionary strategy for safeguarding user passwords and other private data. More specifically, the initiative suggests encrypting user credentials using cutting-edge cryptographic techniques to make it very difficult for hackers to obtain the information. Steganography methods also make it possible for the data to be concealed from view, increasing security. The information will subsequently be kept on a block chain, which offers an unchangeable and impenetrable ledger to guarantee data integrity. By employing this strategy, the initiative hopes to give consumers a trustworthy and safe means to save their login information, lowering the possibility of unauthorised access and data breaches. Additionally, the application of block chain technology gives consumers ownership over their data and ensures that it cannot be accessed by third parties without their permission.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

22	CSE	Prof. Thapaswini P S	4VP20CS069 4VP20CS094 4VP20CS104 4VP21CS402	Exam Attendance Report Generator	Functional	The "Exam Attendance Report Generator" project integrates advanced deep learning and image processing techniques to automate attendance marking during examinations. By leveraging these technologies, the system accurately identifies and records students' presence, thereby reducing the need for manual intervention and minimizing errors. The implementation ensures the reliability and integrity of the attendance data, allowing for efficient management of large student cohorts within examination halls. This project addresses the growing need for automated solutions in educational institutions, where the traditional manual methods of attendance tracking are often time-consuming and prone to inaccuracies. With this project, administrators gain access to a comprehensive platform for managing attendance records. They can track attendance trends, generate detailed reports, and monitor real-time attendance status during examinations. Overall, this project not only streamlines attendance management but also enhances the overall efficiency

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
23	CSE	Prof. Bharathi K	4VP20CS070 4VP20CS074 4VP20CS089 4VP20CS111	Classification and Detection of Multi crop Diseases Using Machine Learning	Functional	Multi crop disease classification using Machine Learning is a project aimed at developing a system that can automatically classify diseases affecting multiple crops using Convolutional Neural Networks (CNNs). The project involves training a machine learning model on a large dataset of crop images to identify different types of diseases affecting crops such as Banana leaf, Betel leaf and Cocoa. The system will be designed to provide accurate and fast diagnosis of crop diseases, which will help farmers to take timely action to prevent the spread of diseases and reduce crop losses. The project is expected to have a significant impact on agricultural productivity and food security, particularly in developing countries where crop diseases are a major challenge. The use of Machine Learning CNN in this project will enable us to leverage the power of artificial intelligence to address one of the critical challenges facing agriculture today.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
24	CSE	Prof. Roopa G K	4VP20CS071 4VP20CS077 4VP20CS093 4VP20CS106	Asana Vision	Functional	Human pose estimation is very difficult in computer vision that has exposed numerous challenges in the past. Examination of human pose is favorable in numerous fields like video surveillance, bio-metrics, assistance , at-home health monitoring etc. Our fast moving lives these days, people generally prefer exercising at home but felt the need of a trainer to estimate their form. As these resources are not always available, human pose recognition can be used to build a self-instruction exercise system that people realize to learn and practice exercises precisely by themselves. This project set down the beginner for building such a system by discussing numerous machine learning and deep learning approaches to accurately analyze yoga poses on recorded videos and live webcam feed.
25	CSE	Prof. Radhika Shetty D S	4VP20CS072 4VP20CS076 4VP20CS080 4VP20CS107	Cashew Kernel Classification System	Functional	The cashew kernel classification system represents a cutting-edge solution for revolutionizing the cashew processing industry. Through advanced image processing and deep learning techniques, it streamlines the categorization process based on various quality parameters. This innovation significantly reduces sorting time and increases productivity while addressing drawbacks of traditional grading machines, such as the risk of damaging cashew kernels during sorting. By integrating modern technology, the system not only enhances efficiency and accuracy but also elevates product quality and market competitiveness, marking a significant advancement for the cashew industry. Traditional cashew grading machines face challenges, particularly the risk of damaging cashew kernels during sorting due to rotating mechanisms like sorting drums. This can lead to lower-quality or unsellable cashews. However, the cashew kernel classification system overcomes these issues by employing high-resolution imaging and deep learning

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

						algorithms to precisely categorize kernels based on shape and size. By automating the grading process, it boosts productivity and ensures consistent quality, marking a pivotal evolution in cashew processing methods.

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
26	CSE	Prof. Swapnalaxmi K	4VP20CS073 4VP20CS088 4VP20CS108 4VP20CS110	Mobile Application used to Detect Nearby Ambulance	Functional	Emergency medical services (EMS) play a vital role in saving lives during critical situations. However, delays in response times caused by inefficiencies in ambulance dispatching systems can have a significant impact on patient outcomes. To tackle this issue, we present a comprehensive automated system for detecting ambulances in real time. This system consists of two applications: a User Application and a Driver Application. The former allows users to request ambulance services by providing their location. Simultaneously, the latter enables ambulance drivers to indicate their availability and respond to incoming requests. To efficiently locate nearby ambulances and prioritize their allocation, app utilizes Haversine's algorithm. This system facilitates direct communication between users and drivers to ensure prompt assistance during emergencies. By harnessing real-time data and advanced algorithms, our system aims to improve the effectiveness of ambulance dispatching.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
27	CSE	Prof. SwapnalaxmiK	4VP20CS081 4VP20CS101 4VP21CS401 4VP21CS403	Classification of Headache Disorder	Functional	Headache disorders are a prevalent health concern affecting a significant portion of the global population. Accurate diagnosis and classification of headache disorders are crucial for effective treatment and management. In this study, we propose a machine learning based approach for the automated classification of headache disorders. Our methodology involves the collection of diverse datasets comprising clinical features, symptom descriptions, patient demographics, and relevant medical history. Preprocessing techniques are applied to clean and standardize the data, followed by feature extraction to identify key patterns and characteristics. Several machine learning algorithms including Support Vector Machines (SVM), Random Forest, and Gradient Boosting are employed for classification tasks. Preliminary results demonstrate promising classification accuracy, indicating the potential of machine learning models in accurately categorizing headache disorders. The proposed approach holds the promise of aiding healthcare professionals in timely and accurate diagnosis, thereby facilitating better patient care and treatment outcomes. Further refinement and validation of the model with larger and more diverse datasets are recommended to enhance its robustness and generalizability.

List of Projects:2023-24

SNo	Dept	Guide	USNs	Title	Status	Abstract(100words)
28	CSE	Prof. Savitha M	4VP20CS083 4VP20CS091 4VP20CS100 4VP21CS400	Chicken Disease Classification Based on Feces	Functional	The poultry sector is facing significant challenges due to the spread of diseases such as Coccidiosis, Salmonella, and Newcastle, which can have a significant impact on production. Traditional farming practices and a lack of reliable information and proper methods of farming have contributed to the spread of these diseases. Poultry farmers rely on experts to diagnose and detect diseases, but access to experts is limited due to the shortage of extension officers. Artificial intelligence and machine learning tools can help semi-automate the diagnostics process for the most common diseases in chickens. This study proposes a solution for predicting diseases in chickens using chicken fecal images, and deep Convolutional Neural Networks (CNN). The proposed CNN model can classify healthy and diseased chicken fecal images as Coccidiosis, Salmonella, Newcastle, or healthy. Also it gives some information about it.
29	CSE	Dr. Uma Pare	4VP20CS085 4VP20CS099 4VP20CS102 4VP20CS105	Gastrointestinal Tract Disease Detection Using Transfer Learning	Functional	This project proposes a method for identifying and classifying gastrointestinal tract diseases from endoscopy images using transfer learning with the MobileNetV2 pre-trained convolutional neural network model. By fine-tuning MobileNetV2 on a dataset consisting of images representing ulcerative colitis, esophagitis, polyps, and normal conditions, the method aims to overcome computational constraints while achieving high accuracy in disease classification. Through a comprehensive approach involving data preprocessing, model selection, training, and evaluation, the proposed method demonstrates promising results in accurately distinguishing between different disease types. The deployment of the trained model holds potential for enhancing diagnostic capabilities in healthcare, potentially reducing the workload on healthcare professionals and

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in

List of Projects:2023-24

						improving patient outcomes
30	CSE	Prof. Shrinidhi A	4VP20CS095 4VP20CS097 4VP20CS103 4VP21CS404	Self Driving Car System Using Raspberry pi	Functional	Self-Driving cars are a sign of modern and advanced technology implementation for human safety and security. The evolution of artificial intelligence has served as the catalyst in the field of technology. The model can sense the environment, navigating, and fulfilling human transportation capabilities without any human input. The model is a big step in advancing future technology. The model contains the idea of developing an automated car which can be driven from anywhere using the internet over a secured server. Model will also have limited automation features like traffic light detection, obstacle avoidance system and lane detection system so that it can drive itself safely in case of connectivity failure. The main goal here is to minimize the risk of human life and ensure the highest safety during driving. At the same time the car will ensure comfort and convenience for the controller. A miniature car including the above features has been developed which showed optimum performance in a simulated environment. The Raspberry Pi was mainly used for the Computer Vision algorithms .The proposed system is very cheap and very efficient in terms of automation. The model explains Road Lane detection, Traffic sign and signal detection, Vehicle and Object detection using Open CV, python and Raspbian OS. Keywords: Lane detection, Object detection, Traffic sign, Signal detection, AI and ML, Image processing.

NehruNagar,Puttur-574203,DK,KarnatakaState–INDIA.
Phone:+91-8251-235955,234555Fax:+91-8251–236444,Web:www.vivekanandaedu.org,E-Mail:vcet_puttur@yahoo.co.in