



V V Sangha's

## Vivekananda College of Engineering & Technology

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PRJ-

Projects

List

28/09/2022

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|-----|------|-----------------|--|--|------------|--|
| 1   | CSE  | Prof. Savitha M | 4VP19CS001<br>4VP19CS003<br>4VP19CS012<br>4VP19CS023 | DETECTION OF<br>ABNORMAL BEHAVIOUR<br>IN AN EXAM HALL USING<br>KNN | Functional | The project report includes of the process for the automatic identification of abnormal conduct in an examination hall, with the goal of automating test proctoring in courses. In the context of proctoring tests, some assumptions regarding usual conduct are made. Anomalies are behavior patterns that are markedly (and comparatively) different. While not every unusual activity is reason for alarm, the system is meant to recognize common patterns for acts of concern such as test talks, turning around, sharing notes, and so on. This detection is based on characteristics generated using a histogram of gradient orientations, followed by a nearest-neighbor search via annotated patterns of pre-recorded movies to train the system for potentially dangerous behavior. While there may be false positives, the system is designed to be a decision support system that facilitates automatic test proctoring and discourages malpractice. |

Prepared by: Prof. Radhika Shetty D S

Checked by: Prof. Pramod Kumar P M

HOD:

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone :+91-8251-235955, 234555 Fax :+91-8251-236444, Web: [www.vivekanandaedu.org](http://www.vivekanandaedu.org), E-Mail: [vcet\\_puttur@yahoo.co.in](mailto:vcet_puttur@yahoo.co.in) Page: 1



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| 2   | CSE  | Prof.<br>Krishnamohana<br>A J | 4VP19CS004<br>4VP19CS005<br>4VP19CS037<br>4VP19CS043 | MALIGNANCY<br>& BENIGN PREDICTION<br>FOR BREAST CANCER | Functional | The primary identification and prediction of type of the cancer about to develop a compulsion in cancer study, in order to assist and supervise the patients. Further accurate classification of benign tumours can prevent patients undergoing unnecessary treatments. Thus, the correct diagnosis of BC and classification of patients into malignant or benign groups is the subject of much research Logistic Regression, K-NN, SVM, Random Forest, Decision Tree has been proposed to predict the breast cancer. To produce deep predictions in a new environment on the breast cancer data. Besides this, this study predicts the best Model yielding high performance by evaluating dataset on various classifiers. In this paper Breast cancer dataset is collected from the UCI machine learning repository has 569 instances with 31 attributes. Data set is pre-processed first and fed to various classifiers like Logistic Regression, K-NN, SVM, Random Forest, Decision Tree. The algorithm with the best results will be used as the backend to the website and the model will then classify the cancer as benign or malignant. |

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| 3   | CSE  | Dr. Jeevitha B K | 4VP19CS006<br>4VP19CS010<br>4VP19CS019<br>4VP19CS065 | WILDFIRE EARLY<br>DETECTION SYSTEM | Functional | With climate change causing an increase in temperature over the past several decades, wildfires have been burning hotter and moving quicker leaving a trail of destruction in their path. Detecting a wildfire early allows firefighters to respond efficiently and effectively to ensure containment. With the rise of advanced computer vision and algorithms, autonomous systems can be used to monitor and report any fire activity. Having multiple devices spread out across a large area will allow first responders to map out the fire location and track the fire. By utilizing smart technologies, property damage can be minimized and residents living in fire prone areas can be evacuated earlier. The wildfire early detection system (WEDS) is a low-powered, low-cost (in both manufacturing and maintenance), easily deployable unit that can be mass-produced. The goal is to produce large volumes of this product to cover as much acreage in forests as possible. In a given area, multiple devices would report to one control center. Ideally, users would deploy these units in dense forests as this is where fires are harder to control and detect. Onboard sensors and cameras will detect heat signatures, and smoke particles to determine if a wildfire is present. |



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| 4 | CSE | Prof. Thapaswini P S | 4VP19CS007<br>4VP19CS018<br>4VP19CS032<br>4VP19CS033 | SALT SEGMENTATION<br>WITH UNET IN PYTHON<br>USING DEEP LEARNING | Functional | Salt segmentation is an important task in image processing and computer vision, with applications in geological surveys and oil exploration. UNET architecture is used to segment salt in seismic images. UNET is a convolutional neural network that has been successful in many segmentation tasks, especially in medical imaging. They implemented the model in Python using the Keras framework with TensorFlow as the backend. The dataset used for training and evaluation is the publicly available TGS Salt Identification Challenge dataset. The dataset consists of 4000 seismic images and their corresponding salt maps. They preprocess the data, augment the dataset to increase the variability of the images, and split the dataset into training, validation, and test sets. Train the UNET model on the training set and evaluate it on the validation and test sets. Performance of the model will be measured using metrics such as Jaccard index, and mean intersection over union (mIoU). The results of the project will demonstrate the effectiveness of the UNET architecture for salt segmentation in seismic images, and its potential for other segmentation tasks in image processing and computer vision. |
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Checked by: Prof. Pramod Kumar P M

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| 5   | CSE  | Prof. Pradeep Kumar<br>K G | 4VP19CS008<br>4VP19CS038<br>4VP19CS045<br>4VP19CS055 | SPEECH READING &<br>RECOGNITION IN KANNADA<br>& ENGLISH USING MACHINE<br>LEARNING | Functional | Lip reading, also known as visual speech processing, means recognition of spoken spelling based on the pattern of lip movements while speaking. Automated lip reading is the process of converting movements of the lips, face and tongue to speech in real time with enhanced accuracy. Lip reading and recognition for alphabets is a technology that aims to enable effective communication for people with hearing disabilities by recognizing alphabet letters based on the movements of a speaker's lips. The system involves capturing a video of a person speaking, preprocessing the frames, extracting relevant features, using machine learning algorithms to classify the features into the corresponding letters of the alphabet, and outputting the recognized letter. The performance of lip reading and recognition systems can be evaluated using various metrics, including accuracy. Several studies have reported varying accuracy levels for lip reading and recognition systems, with accuracy levels ranging from 80% to 88.6%. The accuracy of these systems can be impacted by several factors, including the dataset used, the quality of the video input, and the complexity of the language being spoken. Further research is needed to develop more robust and reliable systems for practical use in real-world settings. Overall, lip reading and recognition for alphabets is a promising technology that can help improve the communication abilities of people with hearing disabilities. |

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Checked by: Prof. Pramod Kumar P M

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| 6 | CSE | Prof.Bharathi K | 4VP19CS009<br>4VP19CS026<br>4VP19CS041<br>4VP19CS059 | CLASSIFICATION &<br>GRADING OF ARECANUT<br>USING IOT-MACHINE<br>LEARNING APPROACHES | Functional | Technological advancements can have powerful impact on the economic growth of agriculture in India. Arecanut farming is one such terrain of agriculture where investment in technology and automation can elevate the proceeds from farming by bringing down production cost. Areca is the major crop of Karnataka having roots in fifteen different districts. The grading and sorting of arecanuts is an important step in the production of arecanuts and is traditionally done by man power. People are trained to identify good and bad arecanuts, but the time taken for sorting arecanuts is more and it is not feasible for a large quantity of arecanuts. In order to minimize the time consumed, a project is designed to classify the arecanuts into four different grades based on their quality using IOT-Machine learning approaches. Convolution Neural Network (CNN) classifier to classify the arecanuts based on the extracted features. |
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| 7   | CSE  | Prof. Shrinidhi A | 4VP19CS011<br>4VP19CS056<br>4VP19CS061<br>4VP19CS066 | SECURE DIGITAL<br>TRANSACTION USING<br>FACE RECOGNITION | Functional | The growing development of the e-commerce market is of great significance in the world. In this online shopping process, the security of personal information and debit card or credit card information increases the popularity of e-commerce and is an important part. This paper provides limited information and is necessary for transferring money by online transactions by securing data and trust of customers. Facial recognition technology identifies a person's information through a digital image. Face recognition has recently received considerable attention as one of the best applications of image analysis and has attracted a lot of interest, particularly in recent decades. Facial Recognition technology has emerged as an appealing answer to a wide range of contemporary requirements for identification and identity verification. Face recognition is a pattern recognition technique that is also biometric, and it is used in a variety of applications. It is mainly used in airports. It will recognize the face and we can avoid some unwanted fraud by using the facial recognition system. Facial recognition identifies each distinct skin tone on the surface of a human face, such as curves on cheeks, eyes and nostrils, and more. |

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Checked by: Prof. Pramod Kumar P M

HOD:

Nehru Nagar, Puttur - 574 203, DK, Karnataka State - INDIA.

Phone : +91-8251-235955, 234555 Fax : +91-8251-236444, Web: [www.vivekanandaedu.org](http://www.vivekanandaedu.org), E-Mail: [vcet\\_puttur@yahoo.co.in](mailto:vcet_puttur@yahoo.co.in) Page: 7



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| 8 | CSE | Prof. Radhika Shetty<br>D S | 4VP19CS013<br>4VP19CS020<br>4VP19CS025<br>4VP19CS047 | ARECAMITHRA- MOBILE<br>APPLICATION TO<br>DETECT ARECANUT<br>DISEASES USING<br>MACHINE LEARNING | Functional | Arecanut is a tropical crop, which is popularly known as betel nut. India ranks second in producing and consuming arecanut in the world. Throughout its life cycle, it is affected by a variety of diseases, from root to fruit. The current approach for detecting diseases is simply observation with the naked eye and farmers have to carefully analyze each and every crop periodically to detect the diseases. In this project, we propose a system that helps in detecting the diseases of arecanut fruit, leaves, and its trunk using Convolutional Neural Networks and suggests remedies for them. A Convolutional Neural Network (CNN) is a Deep Learning algorithm that takes input as an image, assigns learnable weights and biases to various objects in the image, and then learns from the results to distinguish one from the other. |
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| 9   | CSE  | Prof. Mohan A R | 4VP19CS014<br>4VP19CS028<br>4VP19CS030<br>4VP19CS057 | FAKE PRODUCT REVIEW<br>MONITORING &<br>REMOVAL FOR GENUINE<br>ONLINE PRODUCT<br>REVIEWS USING<br>OPINION MINING | Functional | Today people are buying the products from online like e-markets and e-commerce platforms. The details and feedback are also available to the users. After observation these user purchasing the product. This can work against the users because users can sometimes bombard the review section with extreme opinion comments which can work in favor for against the product. Fake review detection and its elimination from the given dataset using different Natural Language Processing (NLP) techniques is important in several aspects. In this article, the fake review dataset is trained by applying two different Machine Learning (ML) models to predict the accuracy of how genuine are the reviews in a given dataset. The rate of fake reviews in Ecommerce industry and even other platforms is increasing when depend on product reviews for the item found online on different websites and applications. The products of the company were trusted before making a purchase. So this fake review problem must be addressed so that these large Ecommerce industries such as Flipkart, Amazon, etc. can rectify this issue so that the fake reviewers and spammers are eliminated to prevent users from losing trust on online shopping platforms. This Fake review detection and its elimination from the given dataset using different Natural Language Processing (NLP) techniques is important in several aspects. In this article, the fake review dataset is trained by applying two different Machine Learning (ML) models to predict the accuracy of how genuine are the reviews in a given dataset. The rate of fake reviews in Ecommerce industry and even other platforms is increasing |

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Phone : +91-8251-235955, 234555 Fax : +91-8251-236444, Web: [www.vivekanandaedu.org](http://www.vivekanandaedu.org), E-Mail: [vcet\\_puttur@yahoo.co.in](mailto:vcet_puttur@yahoo.co.in) Page: 9



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|  |  |  |  |  |  | when depend on product reviews for the item found online on different websites and applications. The products of the company were trusted before making a purchase. So this fake review problem must be addressed so that these large Ecommerce industries such as Flipkart, Amazon, etc. can rectify this issue so that the fake reviewers and spammers are eliminated to prevent users from losing trust on online shopping platforms. |
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| 10  | CSE  | Prof. Radhika Shetty D S | 4VP19CS015<br>4VP19CS017<br>4VP19CS034<br>4VP19CS060 | DEEP LEARNING ASSISTED TOOL FOR AF DATECTION | Functional | Atrial Fibrillation (AF) is a life-threatening heart rhythm disorder. AF diagnosis is very essential and important aspect for healthcare professionals. Early detection of AF using Electrocardiogram plays an important role in the clinical practice. Manual interpretation of ECG signals to detect AF is time-consuming and needs higher expertise, and it is subject to variability among experts. Detecting AF in a timely and effective manner still remains a difficult challenge. This project is aimed to detect AF. Physionet challenge 2017 dataset is used for training purpose and ResNet18 architecture is used for the classification. With the help of Discrete Wavelet Transform the ECG signals are denoised. The segmented intervals are computed and are subjected to ResNet18 architectures for classification. The class specific accuracies of normal, AF and other rhythms are calculated. The proposed method achieves overall accuracy of 96.9%. The proposed project can be used as an assisted tool by the physician in their clinical practice. |
| 11  | CSE  | Prof. Roopa G K          | 4VP19CS016<br>4VP19CS029<br>4VP19CS044<br>4VP19CS063 | MAKE THE CODE YOURS-LEARNER IDE              | Functional | Searching through the net for the less complicated and comprehensible code is a hard task. We want to go through various websites and numerous codes written for the equal problem after which choose the high-quality code or program, we assume is suitable for our precise trouble. In this paper we attention to creating an easier way for beginners in coding to try to construct a green method for the given trouble. We are aiming to offer a web compiler where users can try and code in different programming languages. If discovered difficult to put in writing the answer they can toggle to the code finder page, a  |

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|  |  |  |  |  |  | good way to help them discover a shape for the answer they had been searching for. We use web scraping and provide approximately ninety-nine applications from unique websites. And here we also used NLP for matching the sentence a person used and locating the first-class viable fit across the internet. |
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| 12  | CSE  | Prof. Pradeep Kumar<br>K G | 4VP19CS022<br>4VP19CS046<br>4VP19CS053<br>4VP19CS062 | GENDER IDENTIFICATION<br>BASED ON FIGURE PRINT<br>USING CNN     | Functional | It is probable that a person leaves behind a distinctive trace whenever objects are handled, particularly the fingerprints. Fingerprints are unique impressions that differentiate one person from another. Because of the diverse nature of criminal activities, efficient identification has become an essential requirement for forensic applications, determining the accused gender becomes the first priority. Here all facts of generic fingerprint-based gender determination approaches. This project will help in recognizing the gender of a person based on the common characteristics that are associated with the fingerprint patterns such as arches, loops and whorls and also fingerprint ridge density. The classification of the gender based on fingerprint of an individual will assist in reducing the list of suspects in a crime investigation. This study uses Convolutional Neural Networks to determine a person's gender based on the characteristics that are frequently associated with their fingerprint patterns and fingerprint ridge density. |
| 13  | CSE  | Prof. Krishnamohana<br>A J | 4VP19CS024<br>4VP19CS036<br>4VP19CS040<br>4VP19CS064 | LANDSLIDE DETECTION<br>AND PREDICTION USING<br>SATELLITE IMAGES | Functional | Landslides are a common phenomenon near the ghat regions of south India. The coastal and Malnad region of Karnataka have frequent cases of landslide due to the heavy rainfall and the weak soil structure of those regions. Landslides are a natural phenomenon and normally cannot be avoided, but preventive measures can be taken before hand by some number of predictions and data collections. Proper preventive measures and steps can save lot of lives. Landslide identification plays an important role in landslide risk assessment and management. With the advent of remote sensing technology,   |

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|  |  |  |  |  | landslides can be identified through visual interpretation of both remote sensing images and topographic surfaces. Although the visual interpretation has high identification accuracy, the process is time-consuming and labor-intensive. Machine learning approaches of landslide predictions using satellite imagery is a valid approach for detections of landslides. The major goal of this article is to give a comprehensive overview of landslide detection from the satellite images using Convolution Neural Network (CNN). |
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| 14  | CSE  | Prof. Deepthi M B      | 4VP19CS027<br>4VP19CS039<br>4VP19CS051<br>4VP19CS054 | SMART LPG<br>MONITORING   | Functional | Landslides are a common phenomenon near the ghat regions of south India. The coastal and Malnad region of Karnataka have frequent cases of landslide due to the heavy rainfall and the weak soil structure of those regions. Landslides are a natural phenomenon and normally cannot be avoided, but preventive measures can be taken before hand by some number of predictions and data collections. Proper preventive measures and steps can save lot of lives. Landslide identification plays an important role in landslide risk assessment and management. With the advent of remote sensing technology, landslides can be identified through visual interpretation of both remote sensing images and topographic surfaces. Although the visual interpretation has high identification accuracy, the process is time-consuming and labor-intensive. Machine learning approaches of landslide predictions using satellite imagery is a valid approach for detections of landslides. The major goal of this article is to give a comprehensive overview of landslide detection from the satellite images using Convolution Neural Network (CNN). |
| 15  | CSE  | Prof. Swapnalaxmi<br>K | 4VP19CS031<br>4VP19CS035<br>4VP19CS049               | CLOTHING<br>CUSTOMIZATION | Functional | The virtual try-on of clothes is an essential feature in the online shopping industry. The aim of this study is to propose a novel virtual try-on system using various computer vision techniques, such as Hough Transform, Gaussian Filterization, Haar Cascade, and Hoshen-Kopelman algorithm. The proposed system is implemented using the OpenCV library in Python programming language. Hough Transform is used to detect the edges of the clothing item and fit it to the user's body, while Gaussian Filterization is applied to enhance the   |

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|  |  |  |  |  |  | quality of the image. Haar Cascade is utilized to detect the human body and its different parts, while Hoshen-Kopelman algorithm is used to identify clusters in the image. The system's functional requirements are divided into three steps: capturing the user's image, selecting the clothing item, and displaying the virtual try-on. The proposed system is tested and evaluated, and the results show its effectiveness in accurately fitting the clothing item to the user's body, providing an enhanced user experience, and potentially increasing customer satisfaction in the online shopping industry. |
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| 16  | CSE  | Prof. Shwetha<br>C H | 4VP19CS048<br>4VP19CS050<br>4VP19CS052<br>4VP19CS058 | DETECTING AUTISM<br>SPECTRUM<br>DISORDER IN<br>CHILDREN'S | Functional | Autism Spectrum Disorder occurs in the developmental stages of an individual and is a serious disorder which can impair the ability to interact or communicate with others. Generally caused by genetics or environmental factors, it impacts the nervous system, as a result of which the overall cognitive, social, emotional, and physical health of the individual is affected. There is a wide variance in the range as well as the severity of its symptoms. A few of the common symptoms the individual faces are difficulties in communication, especially in social settings, obsessive interests, and mannerisms, which take a repetitive form. To identify ASD, an extensive examination is required. This also includes an extensive evaluation and a variety of assessments by psychologists for children and various certified professionals. Conventional methods of diagnosing include A significant portion of the pediatric population suffers from ASD. In most cases, it can usually be identified in its preliminary stages, but the major bottleneck lies in the subjective and tedious nature of existing diagnosis procedures. The proposed system is based on the Convolution Neural Network (CNN) architecture and can automatically differentiate autistic and non-autistic images due to its convolution with rich filter families and weight-sharing characteristics. In this work, we appraise the functionality of pre- trained CNN models utilized as feature-extractors followed by classify it as autistic or non-autistic children. This would be hugely beneficial in speeding up disease diagnosis. |

Prepared by: Prof. Radhika Shetty D S

Checked by: Prof. Pramod Kumar P M

HOD:

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone :+91-8251-235955, 234555 Fax :+91-8251-236444, Web: [www.vivekanandaedu.org](http://www.vivekanandaedu.org), E-Mail: [vcet\\_puttur@yahoo.co.in](mailto:vcet_puttur@yahoo.co.in) Page: 17



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| 17  | CSE  | Prof. Savitha M | 4VP19CS067<br>4VP19CS068<br>4VP19CS081<br>4VP19CS085 | AUTOMATED STUDENT<br>ATTENDANCE<br>MANAGEMENT SYSTEM<br>USING CCTV | Functional | Smart Attendance using Real-Time Face Recognition is a real-world solution which comes with day-to-day activities of handling student attendance system. The automatic student attendance management system using the Haar cascading and Local Binary Pattern Histogram algorithm. The system aims to improve attendance management by eliminating the manual process of taking attendance and reducing errors. The system uses a camera to capture the facial features of the students and applies the Haar cascading algorithm to detect faces. The LBPH algorithm is then applied to recognize the faces and mark attendance. The system provides real-time attendance reports, and the attendance data can be accessed by authorized personnel. |



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| 18  | CSE  | Dr. Jeevitha B K | 4VP19CS069<br>4VP19CS072<br>4VP19CS078 | INTELLIGENT TRAFFIC SIGNAL  | Functional | Traffic is a big problem in all major cities irrespective of their size. Many solutions are being developed to combat this issue. The present Traffic signal system was invented over a hundred years ago. Even though the technology has advanced greatly, the mechanism remains the same. Our out-dated infrastructure has meant congestion, lost time and increased emissions. The goal is to change this and bring our systems to the 21st century. About 40% of accidents happen at road intersection; this is because the existing system is static in nature. These are the problems that we aim to alleviate to a certain extent. The biggest advantage of a dynamic system is its ability to adapt to present situation as it happens. Traffic is highly unpredictable in nature. The ability to react to these unpredictable situations is a huge advantage in any situation for everyone involved. |
| 19  | CSE  | Dr. Lokesh M R   | 4VP19CS070<br>4VP19CS094<br>4VP19CS104 | IMPLEMENTATION OF AUTO DIMMER AND VEHICLE DRIVING STYLE DETECTION | Functional | In recent years, humankind has made remarkable progress in the transportation system. Specifically, advanced sensors are installed at both the infrastructure and the vehicles to provide improved situational awareness and facilitate machine intelligence during the decision-making while driving, realizing the Intelligent Transportation Systems (ITS). Among the various issues, the prediction of the vehicle motion and behavior is a crucial topic, since it provides critical information to the decision-making of both individual vehicles  |

Prepared by: Prof. Radhika Shetty D S

Checked by: Prof. Pramod Kumar P M

HOD:

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

Phone :+91-8251-235955, 234555 Fax :+91-8251-236444, Web: [www.vivekanandaedu.org](http://www.vivekanandaedu.org), E-Mail: [vcet\\_puttur@yahoo.co.in](mailto:vcet_puttur@yahoo.co.in) Page: 19



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|  |  |  |  |  |  | <p>and the transportation control center. As a result, there have been many recent studies on vehicle trajectory tracking and behaviour prediction. The emergence of intelligent connected vehicles is expected to contribute to resolving traffic congestion and safety problems; however, it is inevitable that ICV safety issues in mixed traffic will be a critical challenge. Numerical simulation of scenarios involving a mix of different driving profiles is expected to be an important safety assessment tool in the process of testing and validating ICVs, especially regarding extreme scenarios, including car collisions, which are rarely captured in real-world datasets. Collisions can be avoided by detecting the driving patterns. Vehicle behavior prediction provides important information for decision-making in modern intelligent transportation systems. People with different driving styles have considerably different driving behaviors and hence exhibit different behavior tendency. However, most existing prediction methods do not consider the different tendencies in driving styles and apply the same model to all vehicles.</p> |
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| 20  | CSE  | Dr. Uma P | 4VP19CS071<br>4VP19CS086<br>4VP19CS087<br>4VP19CS093 | OCULAR DISEASE<br>RECOGNITION USING<br>DEEP LEARNING | Functional | <p>It can be challenging for doctors to identify eye disorders early enough using fundus pictures. Diagnosing ocular illnesses by hand is time-consuming, error-prone and complicated. Therefore, an automated ocular disease detection system with computer aided tools is necessary to detect various eye disorders using fundus picture. A deep-learning-based approach to targeted ocular detection is presented in this study. Early ocular disease detection is an economic and effective way to prevent blindness caused by cataract, myopia, age-related macular degeneration (AMD) and many other diseases. According to World Health Organization (WHO) at present, at least 2.2 billion people around the world have vision impairments, of whom at least 1 billion have a vision impairment that could have been prevented. Rapid and automatic detection of diseases is critical and urgent in reducing the ophthalmologist's workload and prevent vision damage of patients. Deep learning can automatically detect ocular diseases after providing high-quality medical eye fundus images. A deep-learning based approach to targeted ocular detection is presented in this project. For this project, we used sequence model, to classify the ODIR dataset, which contains 5000 images of different classes of the fundus images. These classes represent different ocular diseases like age-related, cataract and myopia.</p> |

Prepared by: Prof. Radhika Shetty D S

Checked by: Prof. Pramod Kumar P M

HOD:

Nehru Nagar, Puttur - 574 203, DK, Karnataka State - INDIA.

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| 21  | CSE  | Prof. Manohar Jha | 4VP19CS073<br>4VP19CS083<br>4VP19CS105<br>4VP19CS119 | TRACKING THE DEFECTED<br>VEHICLE NUMBER PLATES | Functional | Vehicle registration is a legal necessity to all, any vehicle purchased must be registered and the purpose of this registration is to assist in vehicle identification. The vehicle identifier is usually a metal or plastic plate patched on the front and rear part of a vehicle and contains unique alphanumeric characters. If vehicles on the road do not have any unique identifying tags or have the wrong tags, people will have an opportunity to be mischievous as no one will be able to identify or account for any vehicle. Hence, through vehicle registration one can be able to identify and prove ownership of the vehicle. In order to hide the identity vehicles are disguised by cloning the number plates which aids in providing inaccurate ownership details. Without the correct ownership details, it is difficult to trace any vehicle involved in an illegal activity be it theft, terrorism, to mention but a few. In these days, the vehicle must have attracted the police attention, and this could be through being involved in an illegal activity. This system of number plate identification is usually a posterior to a crime. In our country, the police department trace the vehicle with the help of CCTV will investigating the case. According to our project, we are installing fixed location cameras to identify duplicate number plates. From the image, the system extracts the vehicle number plate. Time and location of the image capture is recorded, and this will assist in comparison of the details captured. Each vehicle will have the preinstalled GPS, which is having a unique number and continuously |

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Checked by: Prof. Pramod Kumar P M

HOD:

Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

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|    |     |                   |  |                        |            | updates the current location of the vehicle. If both the vehicle and camera location matches, then it will consider as valid vehicle. Else it will be considered as suspicious vehicle.   |
| 22 | CSE | Prof. Shwetha C H | 4VP19CS074<br>4VP19CS089<br>4VP19CS115<br>4VP19CS120 | BICYCLE SHARING SYSTEM | Functional | <p>Energy crisis is one of the major concerns in today's world due to fast depleting resources of petrol, diesel and natural gas. In combination with this, environmental decay is an additional factor which is contributing to the depletion of resources which is an alarming notification. The system which we innovated is the Electric Bike. This project has various benefits both to the members of the team and also external benefits thereby making awareness of using alternative modes of transport. The Electric Bike which works on the battery that is powered by the motor is the general mode of transport for a local trip.. The main purpose of using this E-bike is that it is user friendly, economical and relatively cheap. The efficiency of this system undeniable compared to conventional modes of transport. A bicycle Sharing System, it is a shared transport service where bicycle are available for shared use by individual for short term low cost. This program will hold checkout section, operate much like a Public transmit system. The central concept is to provide affordable access to bicycle for short distance trip in urban area as an alternative to provide</p> |

Prepared by: Prof. Radhika Shetty D S

Checked by: Prof. Pramod Kumar P M

HOD:

Nehru Nagar, Puttur - 574 203, DK, Karnataka State - INDIA.

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|  |  |  |  |  |  | vehicles, there by reducing congestion noise and air pollution. |
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| 23  | CSE  | Dr. Uma P | 4VP19CS075<br>4VP19CS096<br>4VP19CS099<br>4VP19CS106 | AUTOMATIC FRUIT PICKER | Functional | Energy crisis is one of the major concerns in today's world due to fast depleting resources of petrol, diesel and natural gas. In combination with this, environmental decay is an additional factor which is contributing to the depletion of resources which is an alarming notification. The system which we innovated is the Electric Bike. This project has various benefits both to the members of the team and also external benefits thereby making awareness of using alternative modes of transport. The Electric Bike which works on the battery that is powered by the motor is the general mode of transport for a local trip.. The main purpose of using this E-bike is that it is user friendly, economical and relatively cheap. The efficiency of this system undeniable compared to conventional modes of transport. A bicycle Sharing System, it is a shared transport service where bicycle are available for shared use by individual for short term low cost. This program will hold checkout section, operate much like a Public transmit system. The central concept is to provide affordable access to bicycle for short distance trip in urban area as an alternative to provide vehicles, there by reducing congestion noise and air pollution. |

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Checked by: Prof. Pramod Kumar P M

HOD:

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Phone :+91-8251-235955, 234555 Fax :+91-8251-236444, Web: [www.vivekanandaedu.org](http://www.vivekanandaedu.org), E-Mail: [vcet\\_puttur@yahoo.co.in](mailto:vcet_puttur@yahoo.co.in) Page: 25



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| 24  | CSE  | Prof. Bharathi K    | 4VP19CS076<br>4VP19CS084<br>4VP19CS118<br>4VP20CS402 | IOT BASED SMART CCTV CAMERA WITH VIDEO & AUDIO RECORDING         | Functional | Security is crucial concern now a days and there are lot of technologies present today to keep your place secure and monitored. But these technologies cost more for domestic and small-scale business where security is required but with less expenditure and maintenance. Upon that in traditional CCTV cameras, it is required for a person to continuously monitor the system. Our project is focused on authorized user can get live stream in android application. So, he can easily track his home using that app. This mechanism is to provide user with cost efficient but effective monitoring system. The Smart CCTV camera with audio which automatically detects, monitor and alert the user of any intruder in monitored premises. The HD camera which is installed in front of a front door will get turned on. If the intruder approach towards the camera then it will be recognized and video along with audio sent to the owner. This can be fetched by the owner through mobile application. |
| 25  | CSE  | Prof. Swapnalaxmi K | 4VP19CS077<br>4VP19CS088<br>4VP19CS097<br>4VP19CS102 | AMERICAN SIGN LANGUAGE TO TEXT CONVERSION USING MACHINE LEARNING | Functional | In the today's world there are many disabled people (deaf, mute, blind, etc..) who face lot of problems when they try to communicate with other. Previously developed devices did not implement any general solution and contain wearable Sensor gloves for detecting hand gestures which uses British and Indian sign language system. The project aims at building a machine learning model that will be able to classify the various hand gestures used for fingerspelling in sign language. In this user independent model, classification machine learning algorithms are trained using a set of image data and testing is done on a completely different set of data. For the image   |

Prepared by: Prof. Radhika Shetty D S

Checked by: Prof. Pramod Kumar P M

HOD:

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|  |  |  |  |  |  | dataset, depth images are used, which gave better results than some of the previous literatures. An attempt is made to increase the accuracy of the CNN model by pre-training it on the image dataset. This Project describes a new method of developing sign language to text and voice conversion in Android as application. This application uses image processing techniques. The American Sign Language (ASL) to text and voice conversation mobile application aims to bridge the communication gap between individuals proficient in ASL and those who rely on text or spoken language. The application utilizes a mobile device's camera or other input methods to capture hand gestures performed by the user, which represent ASL signs. These input frames, typically grayscale images, are then processed by a Convolutional Neural Network (CNN) model to accurately interpret the gestures. |
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| 26  | CSE  | Prof. Pramod Kumar<br>P M | 4VP19CS079<br>4VP19CS090<br>4VP19CS091<br>4VP19CS110 | FOODX-A SYSTEM TO<br>REDUCE FOOD WASTE<br>USING MACHINE<br>LEARNING | Functional | Food wastage is a global issue with significant economic, social, and environmental implications. It refers to the discarding or wastage of food that is still safe and nutritious for human consumption, at any point in the supply chain, from production to consumption. The scale of food wastage is staggering, with roughly one-third of all food produced worldwide being lost or wasted. This has a range of negative consequences, including increased greenhouse gas emissions, wasted natural resources, lost economic value, and food insecurity for millions of people. Addressing food wastage requires a comprehensive and collaborative approach, involving individuals, governments, businesses, and civil society. This abstract highlight the key issues related to food wastage and suggests potential solutions to address this critical problem. FoodX is a system designed to reduce food waste using machine learning techniques. The system is built to tackle the growing issue of food waste globally by providing a solution that can help individuals and businesses reduce their food waste. FoodX uses machine learning algorithms to analyse data on ingredients used in the food that need to be donated before spoiling. FoodX also provides a platform for food donations. The system has the potential to significantly reduce food waste and its associated environmental, social, and economic cost. |

Prepared by: Prof. Radhika Shetty D S

Checked by: Prof. Pramod Kumar P M

HOD:

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| 27  | CSE  | Prof. Pramod<br>Kumar P M | 4VP19CS080<br>4VP19CS101<br>4VP19CS103<br>4VP19CS121 | INTERVIEW<br>AUTOMATION | Functional | Automated interview is a method of interviewing where the recruiter assess the candidate without conducting one in real-time. In real-time interviews, the interviewers or candidates are required to travel or spend a significant amount of time in setting up and completing the process. While in an automated interview, the recruiter can simply send a set of questions to the candidate, which candidates can answer and send back at their own comfort. Our project is basically used to automate the interview process where it will generate the report which will reduce the work of the interviewer and make it easy to analyze and filter the candidates based on the report generated. After analysis of the report the interviewer can send the selection / rejection mail to the candidate in one click. |

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Checked by: Prof. Pramod Kumar P M

HOD:

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| 28  | CSE  | Prof. Mohan A R | 4VP19CS082<br>4VP19CS109<br>4VP19CS111<br>4VP19CS116 | CHATBOT SONG<br>RECOMMENDATION SYSTEM<br>BASED ON EMOTION<br>ANALYSIS OF THE<br>CONVERSION | Functional | Automated interview is a method of interviewing where the recruiter assess the candidate without conducting one in real-time. In real-time interviews, the interviewers or candidates are required to travel or spend a significant amount of time in setting up and completing the process. While in an automated interview, the recruiter can simply send a set of questions to the candidate, which candidates can answer and send back at their own comfort. Our project is basically used to automate the interview process where it will generate the report which will reduce the work of the interviewer and make it easy to analyze and filter the candidates based on the report generated. After analysis of the report the interviewer can send the selection / rejection mail to the candidate in one click.   |
| 29  | CSE  | Prof. Roopa G K | 4VP19CS092<br>4VP19CS098<br>4VP19CS100<br>4VP19CS107 | GESTURE TYPING USING<br>OPEN CV  | Functional | Human-Computer Interaction (HCI) focuses on the interface and interaction between people and computers. The main goal of the HCI is to design machinery that lets people interact with computers in a novel way . Nowadays, computers and modern technologies are available to almost as all people. However, we should not forget about disabled or handicapped customers. Those people should have access to a PC as well as to the Internet. This project implements the boundary for people with movement disability. Although, the basic assumption is that they can at least move their heads and eyelids. These parts of the body are monitored by web cameras and with their help the user moves around the virtual keyboard shown on the screen. In this way the user is able to utilize their own PC. Moreover, through winking an eye he/she can virtually press a button and write the required symbol and can also able to listen to the typed text. |

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Checked by: Prof. Pramod Kumar P M

HOD:

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| 30 | CSE | Prof. Raghavendra T K | 4VP19CS108<br>4VP20CS401<br>4VP20CS405<br>4VP20CS407 | FOOTBALL PLAYER<br>EVALUATOR  | Functional | The football player evaluator is an innovative system designed to revolutionize the assessment and evaluation of football players. It leverages data-driven analysis, advanced technology, and expert insights to provide objective and comprehensive evaluations. By integrating various data sources such as match statistics, performance metrics, video analysis, and scouting reports, the evaluator generates valuable insights regarding player strengths, weaknesses, and areas for improvement. It employs advanced algorithms, statistical modeling, and machine learning techniques to analyze player data, identify patterns, and make accurate predictions. The system facilitates collaboration among coaches, scouts, and talent analysts, promoting knowledge sharing and enhancing the evaluation process. With its user-friendly interface and visualization tools, the football player evaluator streamlines decision-making processes and supports talent identification, player development, and strategic planning in the realm of football. |
| 31 | CSE | Prof. Priyanka M Y    | 4VP19CS112<br>4VP19CS113<br>4VP19CS114<br>4VP19CS117 | WILD ANIMAL INTRUSION<br>DETECTION AND<br>REPELLENT SYSTEM USING<br>IOT AND MACHINE<br>LEARNING | Functional | This project proposes an animal intrusion detection and repellent system 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   |

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Checked by: Prof. Pramod Kumar P M

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|    |     |                       |  |   |            | animals, making it versatile and effective in various settings. The system is also designed to send alerts to the user's mobile device or email 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.  |
|----|-----|-----------------------|--|---|------------|--|
| 32 | CSE | Prof. Raghavendra T K | 4VP20CS400<br>4VP20CS403<br>4VP20CS404<br>4VP20CS406 | CONFIDENTIAL E-VOTING<br>SYSTEM USING FACE<br>DETECTION | Functional | All the world Voting is one of the fundamental rights of every citizen/people of an all country. By voting the citizen to the eligible candidate to elect them for to solves problems. Now days all country used new technology to voting every citizen to the best candidate. One of the main issues in the conventional voting system is that it consumes lots of man-power as well as resources and the preparation have been started many days before the commencement of the election. During this preparation some people may involve in illegal arrangement with each other or try to replace with their henchmen in this process to win the election. It is a confidential process so it must be transparent, Meddle-Proof, Usable, Authenticated, Accurate, Verifiability and Mobility. There are some drawbacks in conventional voting system such as damage of machines, chances of violence, dummy voting and problem of proper monitoring. Manual voting system has been followed in many parts of our country so people could not poll their vote because it is place oriented and there is region wise distribution, voters need to reach the place of voting. To overcome these problems a new confidential E-Voting system is introduced which provides security to the election system by detection and recognizing voter's face who is going to cast his/her vote. In this system the voter's face is detected, captured and stored in the database then match the captured |

Prepared by: Prof. Radhika Shetty D S

Checked by: Prof. Pramod Kumar P M

HOD:

Nehru Nagar, Puttur - 574 203, DK, Karnataka State - INDIA.

Phone : +91-8251-235955, 234555 Fax : +91-8251-236444, Web: [www.vivekanandaedu.org](http://www.vivekanandaedu.org), E-Mail: [vcet\\_puttur@yahoo.co.in](mailto:vcet_puttur@yahoo.co.in) Page: 32





V V Sangha's

## Vivekananda College of Engineering & Technology

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PRJ-

Projects

List

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image with the image already stored on database to recognize the person. If match occurs then the person is allow to cast their vote once the vote is castes the same person will not be permitted to cast votes this provide security against duplicate vote and fraudulent and make the system more efficient and user friendly.