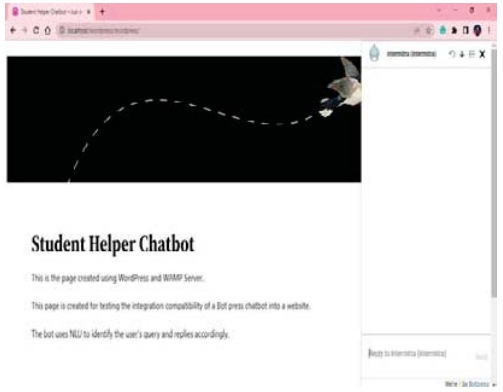
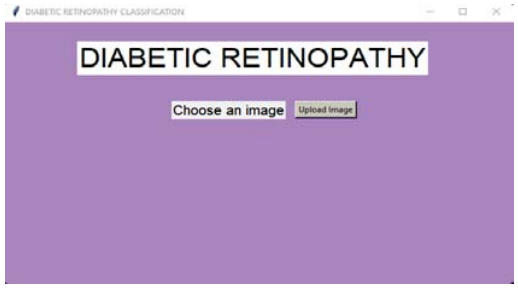
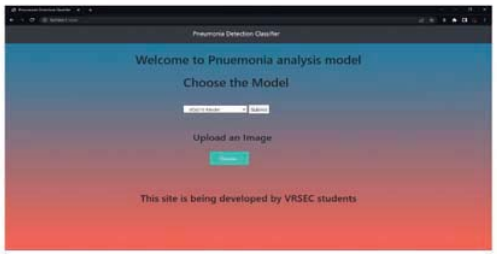
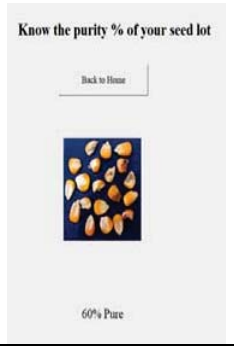
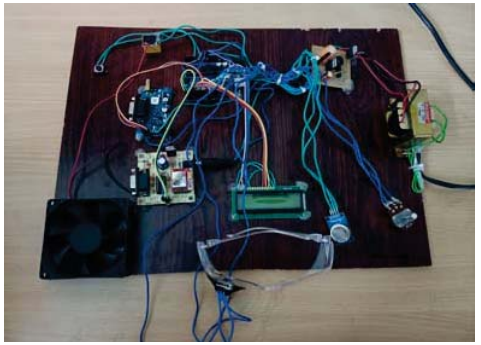
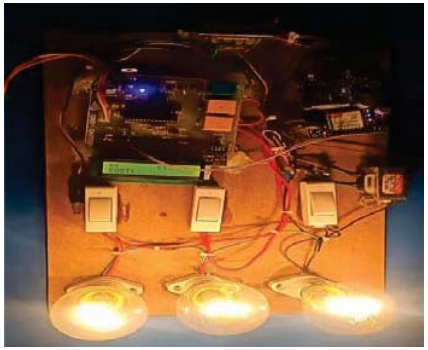
Department of Computer Science &Engineering:: VRSEC
EPICS – Engineering Projects for Community Service
Academic Year 2021-2022

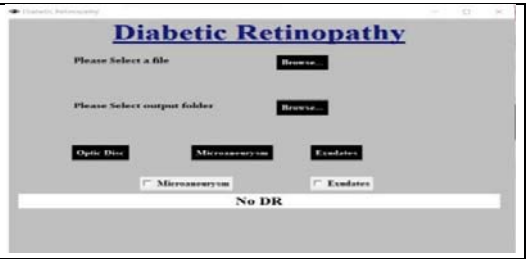
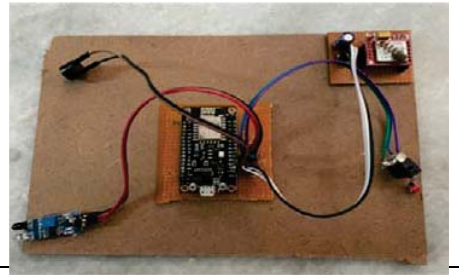
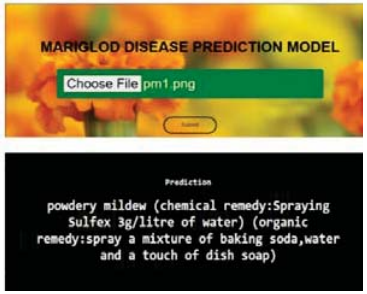
S.No	Student Reg. No	Student Name	Product/Prototype Title	Product Description	Sample Image
1.	198W1A0503, 198W1A0504, 198W1A0528	A. Bhharathee, B. Bhavana, K. Nishitha V. Sandeep	AI Powered Student Assistance Chatbot(Intermitra)	A chatbotis developed to help the students interested in enrolling into our college via EAPCET. A chatbot or chatterbot is a software application used to conduct an online chat conversation instead of providing direct contact with a live human agent and is generally designed using NLP techniques and Frameworks. We also incorporated a Machine Learning Algorithm into our chatbot so that it can be continuously trained and respond appropriately. Our college website is deployed using WordPress and PHP. So, we used the "Header and Footers Scripts" plugin of Wordpress to integrate our chatbot into a demo website with similar configurations. Depending on the outcomes, this student helper chatbot system is quite remarkable in giving appropriate responses to the users. The results indicate that the Student Helper Chatbot is approximately 90.6% accurate in giving responses to users.	
2.	198W1A0505, 198W1A0530, 198W1A0540, 198W1A0541	BaduguHariVenkata Samba Siva Rao, KothaSudarsan, NagellaSomanadh Reddy, NunnagoppalaHari Prasad Guide V Deepa	Smart Stove System	This project detects the gas when there is any leakage and turns off the regulator of the gas cylinder or the stove knob and prevents any further damage. It also helps to detect the amount of gas present in the cylinder and alert the user beforehand. An additional feature is to turn off the gas after defined amount of time. Existing methods deals with sensing the gas and turning it off by some complex procedures like using turtlebot, etc.There is no remote method to off the gas leakage or regulator knob. Existing methods highly deals with	

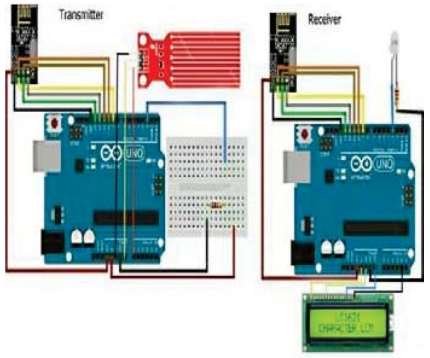
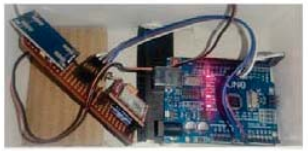
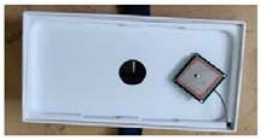
				the industrial gas leakage issues. We are going to solve this problem by using IOT and mobile application; we provide remote method to off the gas cylinder's regulator knob. The scope of our project is limited to domestic purpose.	
3.	198W1A0526, 198W1A0534, 198W1A0525	K. HariSankaraKoteswaraLal, Sunain, M.Sathvika	Classification of retinal diseases using ResNet model	The number of people suffering from Diabetic Retinopathy is much more when compared to that of the ophthalmologists present. So a computer-aided diagnosis tool is required which detects and classifies the fundus retinal image. In previous studies, the deep learning systems were usually trained directly end-to-end from original fundus images to the labels of DR grades, these end-to-end systems might fail to encode the lesion features due to the Black-box nature of deep learning. In our study, we improved the image processing quality using the RESNET model and increased the accuracy above 90 percent. The GUI we developed classified the images into different classes of DR. These classes include No DR, Mild DR, Moderate DR, and Proliferate	
4.	198W1A0525, 198W1A0536, 198W1A0542	DakshinyaKatta, RoshithaMakula, Akshitha Raj Parasa Dr Ch.Anuradha	Disease Detection - Cotton	This project outlines a fantastic method for detecting cotton plant diseases. It describes a strategy that uses Partial Differential Equations (PDE) based image decomposition, segmentation, feature extraction, feature selection, and classification to improveclassification performance and propose a treatment plan. To partition the image into texture and object components, the total variation model is frequently utilized. The texture, color, and shape features are extracted using the codebook method and afterward combined into a feature set. The relief technique of selecting features is employed to keep only relevant attributes. Only a subset of the elements considered in classification is permitted to pass through the Multiclass classification Support Vector Machine (SVM) algorithm. Despite this, we developed a disease detection app using CNN, with a dataset of 2000	

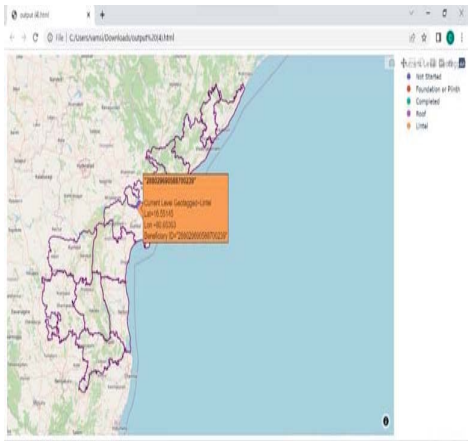
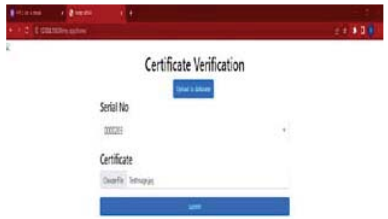
				leaf images that incorporates the previously mentioned factors. The proposed technology will serve as a graphical interface for monitoring cotton leaf disease. We were able to identify the plants' diseases with 92.5 percent accuracy using the app.	
5.	198W1A0532, 198W1A0544, 198W1A0546	M.SaiManvitha, P. Jaya Vineela, P.Rishitha Guide Prabu.U	AAGF-CNN: An Android Application for Grading Fruits using CNN	In this proposed system, the grading of fruits is done by using a Convolutional Neural Network (ConvNet/CNN) which is a Deep Learning technique. It is an efficient and effective machine vision system based on the deep learning techniques and it offers a non-destructive and cost-effective solution for automating the visual inspection of fruit freshness, ripeness and appearance. The proposed system captures the image with a camera and converts it to pixels and pre-process the image into a deep learning model which displays whether the fruit is healthy or defected. The real time system efficiently segments multiple instances of the fruits from an image then grades the individual objects (fruits) accurately. The system was trained and tested on two data sets (apples and bananas). The test results show that the system can sort 89% bananas and 86% apples accurately when tested with real time images.	
6.	198W1A0516, 198W1A0517, 198W1A0533, 198W1A0557	G.Pratap, G.Chaitanya, M.Sarath, U.VenkataSai Guide Dr.K. Praveen Kumar	Covid And Pneumonia Analysis Through Chest X-Ray	The proposed study seeks to diagnose Pneumonia and COVID patients using Chest X-Rays. For the specified dataset, the suitable CNN Model is determined. Using a database of chest X-Ray pictures from genuine patients, the model acknowledges Pneumonia and COVID patients. Images are pre-processed and properly trained for categories such as Normal, Pneumonia and COVID. Following pre-processing techniques, disease identification is performed by picking relevant features from each dataset's images. The graph depicts COVID detection accuracy to Pneumonia detection accuracy and vice versa. Not only does this approach detect Pneumonia or COVID, but it also recognises Pneumonia	

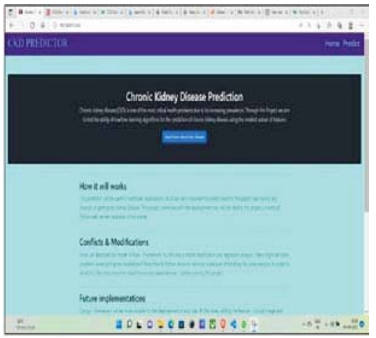
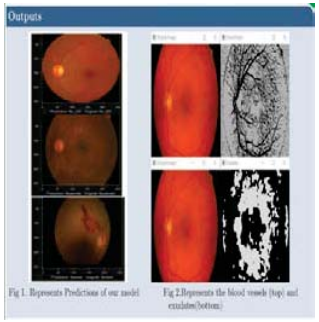
				subtypes such as bacterial or virus infection, with accuracy rates of 81 percent and 91.46 percent respectively. The proposed approach for identifying COVID, Bacterial Pneumonia, and virus infection aids. COVID may be diagnosed and differentiated from various kinds of pneumonia quickly allowing for the adoption of suitable and timely treatments.	
7.	198W1A0514, 198W1A0522, 198W1A0550	Pranathi. D, Krishna Sahithi. K, Girija. R Guide Dr. M. Sobhana	Seed Quality Prediction using Machine Vision and Deep Learning Technique	The objective is to provide a solution that does not require any manual check for seed quality for such commercial farming. The detection of pure and damaged seeds without human intervention requires the use of Computer Vision and Deep Learning techniques. The project uses OpenCV to detect every seed grain in the seed lot and a Deep Neural Network to predict the quality of the detected seed grain. The outcome of the model is to predict the percentage of purity of the seed lot. Our solution is cost-free and reduces the manual work, and time to filter out the damaged seeds.	
8.	208W5A0503, 208W5A0504, 208W5A0506	Pindra Lakshmi Kumari, PuramaVasanthi, YenuguddhatiLahari Guide Dr.K.Praveen Kumar	SMART DRIVER MONITORING SYSTEM	To avoid thehuman error in the causes of road accidents we are implementing a project named Smart Driver Monitoring System. In our project we solved the human errors in accidents such as alcohol consumption , over speed of the driver by using the sensors and we sent a message to the traffic police mobile phone about the vehicle details and the location of the vehicle using GPS and GSM technologies and we checked the drowsiness of the driver and an alarm rang when the driver closed his eyes for 2 seconds and we added an emergency button which is very helpful in the emergency situations like break failure of the vehicle , loss of control of the vehicle or any fire accident occurs, So in that situations when the driver pressed the emergency button then immediately a message along with the location and an alert was sent to the traffic police as well as the monitoring department at	

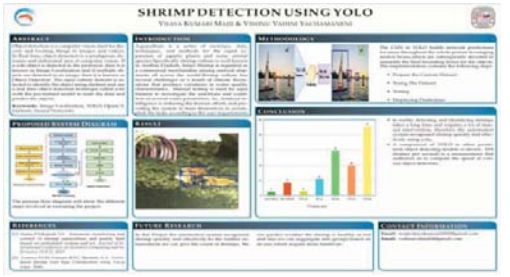
				bus stand as Emergency Detected.	
9.	198W1A0509, 198W1A0531, 198W1A0559, 208W5A0505	B.Kavya, K.VeenaMadhuri, V.Bhargavi, S.Ramya Guide Dr.K.Srinivas	VIDYUTH SAMRAKSH	This Project, propose a novelIoT based technique called "VIDYUTH SAMRAKSH". This framework is divided into Four major modules, namely: Arduino UNO with ATMEGA328P Micro Controller, GSM module, and ESP8266 Wi-Fi module, Relay module. Arduino ATMEGA328P is used because it is energy efficient i.e., it consumes less power, and it is fastest, LED display is connected to the Arduino to check the readings. The GSM module provides a feature of sending a notification through an SMS and making a call. ESP8266 Wi-Fi is used to post the data into the cloud. One can view their daily usage that is updated in the "ThingSpeak" Cloud API, in the "ThingView" App anytime. Relays are used for the Automatic Shutdown of the appliances when the power exceeds the limit according to the priority of the device	
10.	198W1A0521, 198W1A0558, 198W1A0561	K.Swetha, V.Sai Kumar, V.H.S.S Kaushik Guide N.Sunny	Hand Sign Recognition using Image Processing	As a medium of communication Sign Language is used by the dumb people and the people who have difficulty to speak and hear to communicate within their community or with others people. Hand Sign Recognition involves translation of the sign language to English. There are many sign languages, but here we deal with American Sign Language. There are existing methods to detect sign language by using IOT sensors, colours, glove etc., These will be expensive, time consuming, involves complex work, and are not flexible. Image processing can solve the problem and makes sign language detection flexible, faster, simple and more accurate. Here the sign showed by the user in front of the camera will be translated to English.	
11.	198W1A0527, 198W1A0543, 198W1A0548	K. Vivek, P. Rishi Kumar, P. Praneeth Guide	Framework for Automatic detection of	A prototype for automatic detection of normal examinations for diabetic Retinopathy screening is presented followed by a system that combines	

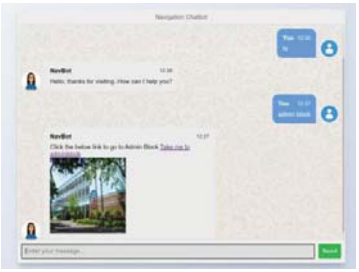
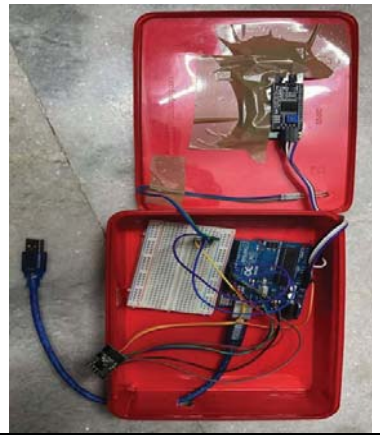
		Dr. K. SuvarnaVani	features from Fundus Images	pathological pattern mining methods, with specific lesion detection methods to extract information from the images. In this project we developed a framework for classification of Diabetic Retinopathy images based on disease criticality. The GUI takes the retina image as input. It pre-processes the images and extracts the features. This Feature extraction helps in classification of criticality level of disease upto an extent.	
12.	198W1A0510, 198W1A0515, 198W1A0549	B.Meghana, G.SaiGopalaSwamy, R.Tejomai Guide M. Srilatha	IoT BASED SMART MANHOLE ALERT SYSTEM	IR sensors and open lid sensors are used for detecting overflow open lids in manholes. Building an app "IoT BASED SMART MANHOLE ALERT SYSTEM" which will notify the users about the manhole troubles through SMS using the GSM module, providing a history of notifications in the app for precautionary purposes, enabling the users to post their queries troubles with manholes, providing a step in ensuring their safe journey.	
13.	198W1A523, 198W1A0537, 198W1A0547, 208W5A0502	K.SaiHaritha, M.L Manogna, S.Prathyusha, G.DivyaGuide J.V.D Prasad	Fuel Distance Estimator	To measure accurate fuel level,to show nearest fuel stations.to estimate distance that can be travelled with the fuel left in fuel tank.	
14.	198W1A0518, 198W1A0560, 198W1A0564	Gullapalli Angel, VemparalaVigna Sri, YalamanchiliManasa Chowdary Guide A.Jitendra	FLOWER DISEASE DETECTION USING CNN	The continuous change in environment is harmful to the crops and leading farmers towards debts and suicides.Most of the science students intend to provide solutions to the farmers who are involved in major crop production neglecting small-scale farmers. This project aims to develop a framework for the classification of Diseases that can be seen in marigold flowers. The addition of global mobile phone utilization and recent enhancement in computer vision made possible by deep learning has floored the way for mobile	

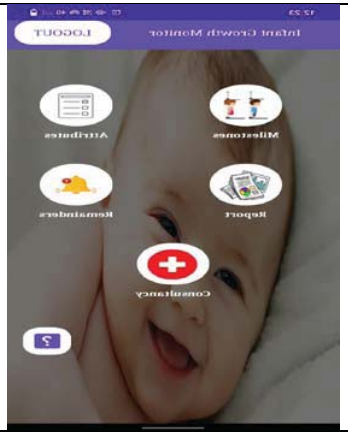
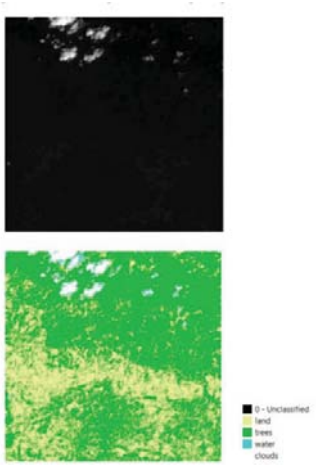
				phone-assisted disease detection. In this project, we summarize the need for an application to provide a background about a disease, its symptoms, the different disease etiology, and their treatment.	
15.	198W1A0501, 198W1A0519, 198W1A0529, 198W1A0555	A. Sarath Chandra, J.R. Harinadh Kumar, K.V. Vishnu Vardhan, T. AnirudhSairam Guide Dr. K.L. Sailaja	A Framework for Intelligent Traffic Management System for Roads Under adverse weather conditions using Smart Sensors	In the proposed system, water level sensor is used to estimate certain depth in the water to be measured and NRF24l01+ wireless module is used in the system to collect the information about that particular place and in which case if any condition met for causing congestion of vehicles and transport, it sends the signals to local management body for clearing the flooding streets and in turn increase the flow of traffic. A unit can transmit and receive data simultaneously and consumes considerably less power than LEDs during transmission, it can operate at baud rates from 250Kbps up to 2 Mbps, and when used outside with an antenna, it has a range of 100 metres, can send and receive data concurrently, and can communicate with up to 6 additional modules.	
16.	198W1A0508, 198W1A0520, 198W1A0524, 198W1A0556	Boggavarapu Mahesh Babu, JaladankiVenkataRaviteja, KandlakuntlaVenkataNageswarRao, KanneganTejasri Guide S.Rajeswari	Contiguous Cattle Tracking Device for protection against larceny and enigmatic animal behaviour	We implemented a small device like a GPS tracking unit along with GSM technology with the help of IOT concepts implemented into a tracking collar that can be used for cattle, and a mobile application that could keep track of the cattle's Geo-location that were tagged. The animals that are to be tagged are well known to owner of the cattle than us because of his knowledge on his cattle.	 
17.	198W1A0512, 198W1A0513, 198W1A0507	CharanAbburi, ChimataMeghana, BoddapatiSaiRatnakarDr. K. SuvarnaVani	Estimating and classification of buildings under PMAY scheme.	PradhanMantriAwasYojana (PMAY) was launched with the aim to provide housing at an affordable price to the weaker sections of the society mainly include Middle Income Groups (MIGs),Economically Weaker Section (EWS). The Yojana involves a construction of around 20	

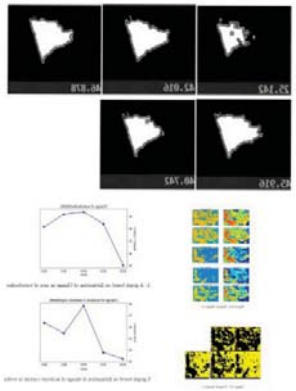
				million houses at an affordable price by March 31; 2022.As the time is running out due to insufficient funds from government only up to certain level of building construction was completed. Previously it will be difficult for beneficiary's to track the progress of the house constructed. We emphasize the straightforward applicability of this approach on the national scale. It mostly relies on Machine Learning techniques (Data processing) and representation of housing data by using GIS coordinates on maps with the help of geopandas and plotly, which potentially permit frequent update cycles and cost-effective analysis that may be relevant for a plethora of different applications. Our region of interest for this study was the areas where the PMAY scheme is implemented.	
18.	198W1A0502, 198W1A0554, 198W1A0563, 208W5A0501	A Kartik, S DyutikChaudhary, G ViswaDatta, G BhargavaSaiDr. K. Praveen Kumar	Chronic Kidney Disease Prediction Using Ml Algorithms	Kidney illness that is chronic is a deadly disease with a high possibility of converting into the final stages of the infection and a poor prognosis for mortality rate, putting a significant financial strain on the healthcare system. The use of machine learning (ML) techniques to predict renal disease is highly effective. For more accurate results, we now use random forest, random search cv, and XGB boost algorithms. The current study's methodology for diagnosing CKD status using diagnostic data includes data pre-processing, a mechanism for handling missing data and feature extraction.	
19.	198W1A0511, 198W1A0551, 198W1A0552, 198W1A0553	BurriYashithaAnju, SakhamuriVenkataSaiGowtham, ShaikHussain, SriramMetla Guide Dr P Ramesh Kumar	Automatic Certificate Verification Using Computer Vision	Our approach involves detecting fields in the certificate, in which the employer is interested and cropping the part containing the value for the field. It is then given to the OCR engine which gives the text embedded in the image. Based on a number that identifies the certificate uniquely, the system queries the institute's database and applies Levenshtein's Distance Algorithm to find the	

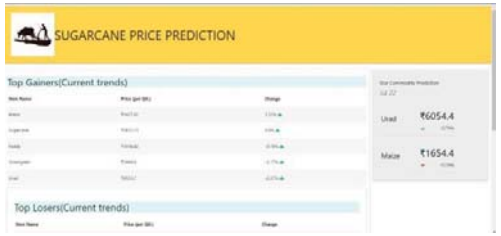
				extent to which the details match and acknowledge the employer with the result. This entire verification process is implemented as client-server architecture for easy access.	
20.	198W1A0538, 198W1A0545, 198W1A0562	M.Sravani, P.VamsiPriya, V.Vandana Guide Dr. D. RajeswaraRao	Diabetic Retinopathy Classification using deep learning techniques	We built a model using deep learning Residual networks extracting the features blood vessels and exudates extraction and can assist the opthmologists by providing clear images of the retina, blood vessel extracted images and also provides the classification based on severity like mild, no dr, and proliferative dr, severe. These phases are pre- processing, blood vessel and exudates detection i.e feature extraction and classification. In this work, From the presented retinal fundus pictures, we utilized the Res-Block model to classify and diagnose diabetic retinopathy and obtained an accuracy of 92%.	
21.	198W1A05B4 198W1A0581 198W1A05C9	Saran TejaMallela, G Satya Dinesh Kumar, Y Tejaswi Dr ChRupa	Efficient Smart Micro Scale Solar Power Management System For Rechargable Nodes	An IoT based model that can divert the excess solar power produced from the solar panel based on the solar battery percentage. This type of diverting solar power to the neighbours will save us a lot of energy by avoiding stepping up in transformers and uses the solar panels to their full extent.	

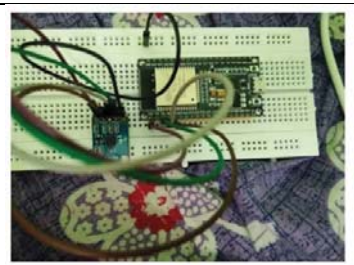
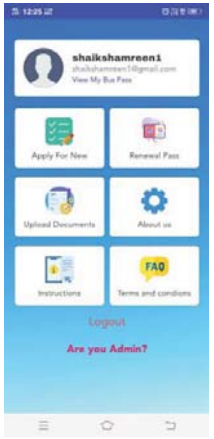
22.	198W1A05C3 198W1A0567 198W1A05A3	Vemulapalli Krishna Rohith, AppalaVenkata Lakshmi Lahari , NarraNeelima Dr.M Sobhana	Automatic Cephalometric Analysis Using Machine Learning	A machine learning based software is the solution provided to reduce the work of dentist for treatment planning and assessment. Though some software's are available for cephalometric analysis they are very costly and also not user friendly as they require heavy hardware-based equipment like laser guns, one-shot cephalostats. The proposed model uses decision tree to create a diagnosis plan based on the previous patient's data fed to it. This model is implemented using python language libraries like OpenCV, Sklearn, and Pandas	
23.	198W1A05C2, 198W1A05A6, 198W1A0571	VankadariBhavana, PalacharlaShirishaBhavani, Banavath Baby Nagaleela Guide Dr D RajeswaraRao	Skin Disease Detection Using Convolution Nueral Network	we developed a deep learning model to find various skin diseases like melanocytic nevi, melanoma, benign keratosis-like lesions, basal cell carcinoma, actinic keratoses, vascular lesions and dermatofibroma. The algorithm that we have used is the Convolutional Neural Network (CNN), as it is one of the most accurate algorithms for image classification. We have used a method for detecting skin diseases using image processing and a deep learning model known as Convolution Neural Network.	
24.	198W1A0597, 198W1A05C7	MajjiVijayaKumari, Y Vishnu VahiniDr.D Rajeswararao	Shrimp Detection Using YOLO	For this research the aqua culture domain is selected to identify the object using darknet and use a real time object detection technique called yolo with the pre-trained model to train the data and predict the objects of which class it belongs to and once the object detection is done , then deep neural networks are used to identify the shrimp as an object. The neural networks are used for classifying the data. The supervised algorithms are used to detect the patterns in the given data and training can be done through which the model can do prediction and	

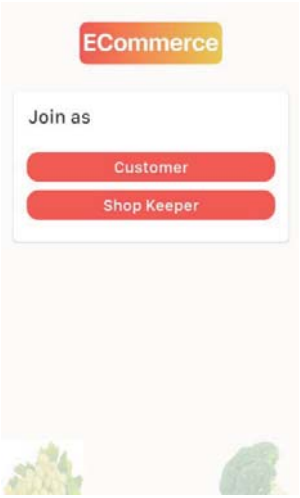
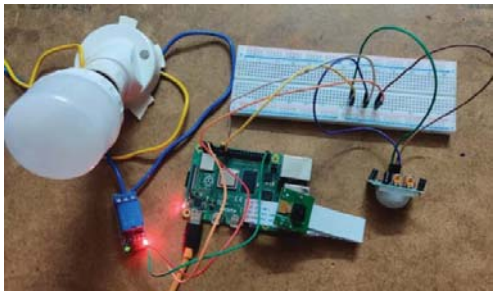
				to detect shrimp using OpenCV, which is a programming function library geared mostly at real-time computer vision.	
25.	198W1A0569, 198W1A0586, 198W1A0592	A.Yamini, K.Hindu, Y.LakshmiNarayana Dr.M.Sobhana	Navbot-College Navigation Chatbot using Deep Neural Network	The proposed chatbot will search the processed query in the knowledge base and respond with the corresponding answer using a sequential DNN model with five hidden layers. User interface of the chatbot is developed using Hyper Text Markup Language(HTML), Cascading Style Sheets(CSS) and Java Script. The proposed model will help in navigating people inside the college to different blocks through google map links and inside the blocks through textual directions. The model works with an accuracy of 98%..	
26.	198W1A05A0, 198W1A0576 , 198W1A0589	Nalamolu Raja Reddy, Cheekurimelli Ganesh Karthik, KondapalliGayathriCh Raga Madhuri	Agile Helmet - A Smart Secure System for Motorbike	Agile helmet is basically a smart helmet. The core concept of an agile helmet reduces the risk of riding a motorcycle. The most important objective is to keep bike drivers safe. The engine will turn off deliberately if the motorist wears no helmet. Using this helmet whenever an accident occurs, GPS and GSM modules send the location information to the respective families. This is done by introducing the IR and vibratory sensor to the helmet. These sensors are set to certain threshold values. This project aims to save the lives of drivers and reduce the number of people killed in road accidents. It is one of the most advanced road safety systems projects ever undertaken.	
27.	198W1A0580, 198W1A0585, 198W1A05B3	Ganapa Sri SaiVenkataBadrish, KaturiGayatri Naga Prabhanjali, Srikar Ravi Dr B Jayanag	Infant Growth Monitoring System	An android application that keeps the regular recording of a child's weight, height, head diameter and the general activities that they should perform during developmental stage coupled with some specified remedial actions if there is an abnormality in any of the above attributes. This Android Application “Infant Growth Monitor” will keeps track of the infants (whose age is less than 3 years	

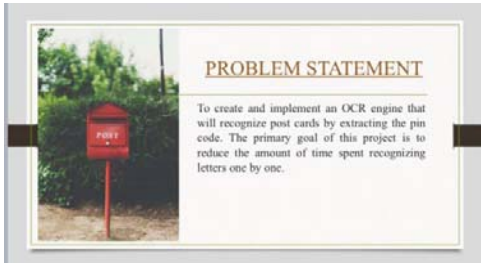
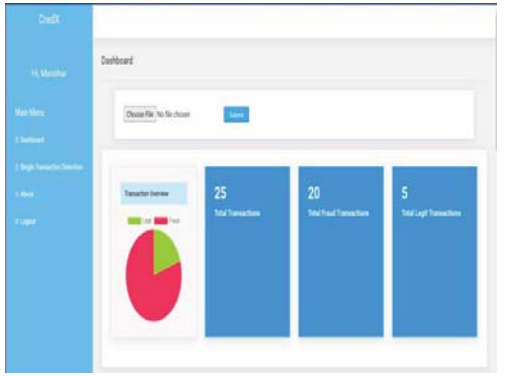
				of age) growth monitoring by storing their data in the firestore database and generates a report on the milestones and activities that should be performed by them every month periodically. It also notifies the user on the vaccinations that should be given to the infant every month. The physical attributes like height , weight and head-circumference are tracked and generated on the report accordingly. If any of the abnormality is detected by the parent, this app provides a scope to consult the doctor.	
28.	198W1A0570, 198W1A0578, 198W1A05C1	AVenkataSaiGeethika, EslavathKavya, TiruveedulaBhargavi Dr K SuvarnaVani	Bamboo Tree Classification Using Machine Learning	In this project study of various bamboo classification methods using unsupervised learning. Image is processed by Discrete Wavelet Transformation. The DWT Image Resolution Enhancement, DWT image compression techniques are applied and then noise is removed from images. The trees are identified using clustering. Bamboo is identified by Digital Image processing. For clustering, algorithms like K-Means Clustering is used. For classification of bamboo, algorithms like Convolutional Neural Networks(CNN), Random Forest, Logistic Regression, Naive Bayes and Support vector Machine kernel(SVM-kernel). K-Means Clustering is identified as best for clustering.	
29.	198W1A0573 198W1A0574 198W1A0583	BhavanaVennam. , BoyinaSaravani. ,GurramKiranDr S Vasavi	Optimal Route Locator Mobile App for Timber Depots	This appprovides details on various timber depots available in the districts of Andhra Pradesh. This mobile application has the features such as information on types of timber depots, locations using maps, quantity of timber available in each depot, price of the timber. Such information not only saves the time for the user but also	

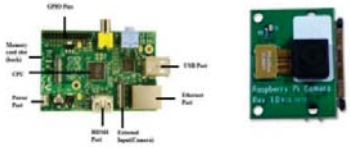
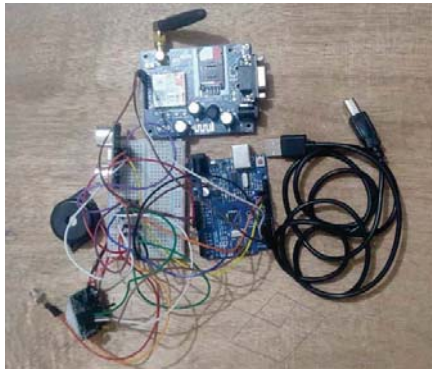
				price comparison can be made from this application. Users can place the order for the amount of timber. Government officials can track each timber depot; control the prices as per Government rates. Each user will be provided their logins for performing various transactions such as placing orders, updating information, tracking the orders. The mobile application is developed using Android Studio in Java and Firebase to store the data. Google Maps essentially uses two Graph algorithms – Dijkstra's algorithm and A* algorithm, to calculate the shortest distance from point A (Source) to point B (destination). A graph data structure is essentially a collection of nodes that are defined by edges and vertices.	
30.	198W1A0566 198W1A05B2 208W5A0512	A LalithaAnupama PopuruSahithi ShaikAshaAfreen Dr K L Sailaja	Estimation Of Change In Wetland Area Using Sentinal-2 Satellite Images	This project Monitors water bodies such as lakes, ponds and wetland crops. Input images are collected from Sentinel Hub EO Browser. The input images for monitoring water bodies are based on NDWI (Normalized Difference Water Index) and for monitoring wetland crops the input images are based on NDMI (Normalized Difference Moisture Index). In monitoring water bodies' module, pre-processing is done using Guassian Blur, Clustering is done followed by edge detection and comparing the changes in area of water bodies over last 5 years using OpenCV. In monitoring wetland crops module, clustering is done followed by comparing the changes in moisture percentage over last 5 years using OpenCV, Morphological transformation of dilation on the image followed by bitwise AND operation between the original image and masked image to specifically detect only the	

				blue and shades of blue and discard other colors. K-Means and Fuzzy-C-Means algorithms used for clustering. Canny edge detector algorithm is used for edge detection.	
31.	198W1A0572, 198W1A05C4	BhamidipatiHarika, VemuruSneha Dr G Kranthi Kumar	Sugarcane Price Prediction Using Decision Tree Regressor	Agricultural commodity price variations will influence the country's economy. Estimation of crop prices and evaluations are performed in order to make a profitable decision prior to the cultivation of a specific crop. Forecasting the price of a crop like sugarcane will help farmers make smarter judgments, which will help them to save money. We projected the price of the crop sugarcane and have done the same process for some other commodities in this project .Crops are predicted based on previous rainfall and previous year's prices of the crop. The decision tree regressor algorithm was utilized to assess documented data and forecast price for the forthcoming months.	
32.	198W1A0591, 198W1A0593, 198W1A0596	KothapalliChakradhar,LamuPriyanka, MadabattulaBhargavi Sri Bhavya Dr P.Ramesh Kumar	LAMS (Local Air Pollution Monitoring System)	Through this project people can monitor the Particulate Matter PM2.5 PM10 pollution in their location by capturing the images of the surrounding area. In our approach we predict the particulate matter pollution from an input image. The images are labeled with the correct AQI. CNN model like resnet-50, mobile-net and inception-net are trained to estimate the AQI value.	
33.	198W1A05A1, 198W1A05B1, 198W1A05C6	NandyalaSaiPavithra ,PinjalaEswara Chandra, VundiChetan Krishna VarmaMr S	Seizure Detection	This Project mainly focus on generalized tonic clonic seizures. Seizure detector is an electronic device that can detect seizures if you have a condition like epilepsy. It can alert your care- takers when you are having a seizure, but it does not prevent seizures from happening.	

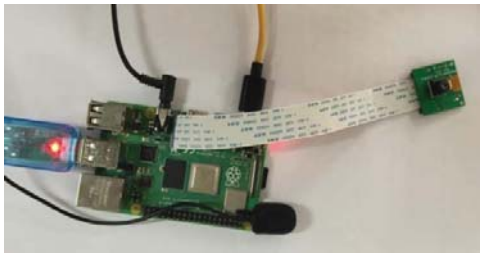
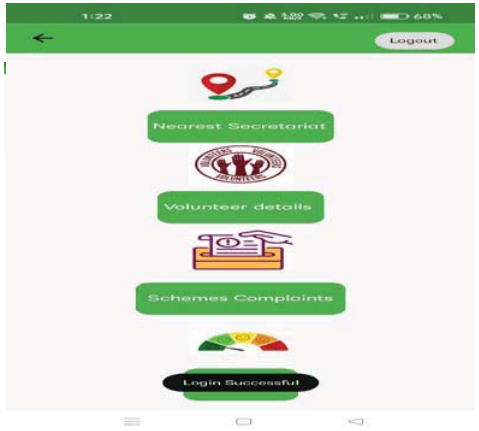
		Ravi Kishan		Most seizure alert devices involve non-invasive wearable or non-wearable technology that monitors your movements and communicates that information to a smartphone application. This can be implemented with the help of sensor accelerometer ADX335(for jerking movements).	
34.	198W1A0565, 198W1A0579, 198W1A0568	AnaganiLikhita , Gali Lakshmi Supraja , A Srikanth D Suresh Babu	C2BFIT	The project purpose is to make a mobile calorie counter application based on Android operating system. The application is developed using a XP Programming methodology, the Java programming language has been used to develop the system, while Firebase has been used for database development.	
35.	198W1A05B6, 208W5A0511	ShaikShamreen,ResojuMitravinda Sri Mastan Mm Durga	Smart Bus Pass Management	The Idea is to automate the bus pass management system of AP state (APSRTC).The common requirement of many employees, students and other frequent travelers is bus pass. But they face many issues to apply for bus pass and to renew it. So, to reduce the effort of citizens in order to apply for a bus pass, also there is no facility to apply for bus pass online Smart Bus Pass Management System Application is proposed. This application provides the functionality of applying for bus pass in online mode, to see their date of renewal and also provide regular notifications to remind the user at the time of pass expiry. To make use of this application they should provide the basic information like Aadhaar card, Id proof, Authorized institution signature & stamp for Registration verification and phone number for online payment.	

36.	198W1A0588, 198W1A0590, 198W1A05A4	KommarajuKavyaSree Kota Sri Nithya, Nukala Naga V GayathriGirishma Mr S Babu	Grocery Store Mobile Application Embedded With Time Slot	To reduce the waiting time and for the convenience of the customers, this application helps to order the items and can be taken at the preferred time slot.It is developed using cross-platform app with a mobile development framework. The data is stored using the fire-base connectivity. Agile method is applied here, collecting the data and requirements from the client and implementing in the application and taking feedback from the client. The time slot enables the customer to order the grocery items from a particular store at a time. When a customer wishes to buy the daily needs then he can directly add the items to the cart and select the time he wants to pick items. The owner of the shop packs the ordered items by the preferred time The shop keeper has the availability of uploading and deleting the items. Groceries are important for the daily use but exposure to the crowd is unsafe. This led us to the idea of developing an application.	
37.	198W1A05A5, 198W1A05A8, 198W1A05C8	PakkiruPavithra,Pandula Baby Likitha,YadlapalliVenkayya Mr ChMukesh	Auto-Monitor for Smart Classrooms	Reduction in Power wastage has been a primary concern for large academic institutions and business organizations alike. Unoccupied classrooms might still have electrical appliances running leading to unnecessary consumption of power and wastage of resources. Our aim is to reduce the wastage of that amount of energy. So our project proposes a Wireless Sensor based Power Management System that monitors and controls the functionality of electrical equipment inside the classroom to automatically turn off without human intervention when the room is unoccupied. Motion detection is used with the help of motion sensors and camera to detect human presence inside the room. If the room is unoccupied, our system automatically switches off all the equipment inside. This a cost effective system because expenditure involved in implementing the system is very less compared to the	

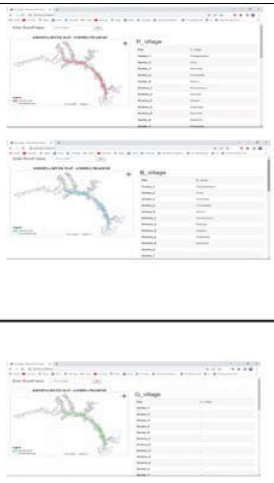
				power costs incurred.	
38.	198W1A0587 198W1A0575	KirthanDhulipalla, ChanamoluSravanVenkatSai Dr P Ramesh Kumar	Dynamic Interactive Postal Pin Code Recognition System Using OCR	In Many areas the majority of the postal systems are still manually operated for pin code recognition and processing. It has been discovered that recognition and processing has numerous disadvantages, including human errors, increased processing time, and the need for additional man power. The method we are implementing for this system is automated recognition via Image Processing and Optical Character Recognition (OCR). In this method, a camera is used to capture images of postal items, and OCR is used to recognize postal pin codes. In this Method, we will train one of the post card formats by abstracting the required fields has a cropped image, abstracting data from it, and sending it to a fire store. so, the next time you upload a post card in the same format, the data is extracted as a trained image and saved in fire store.	
39.	198W1A0595, 208W5A0509, 208W5A0510	LutikurthiSaiManohar,MoturiDevika,NagelliVijayaMr. S Ravi Kishan	Credit Card Fraud Detection Using Logistic Regression	In this project we use various types of machine learning models and algorithms for identifying the fraud in the transactions. Here algorithm such as logistic regression is considered. By selecting the algorithm with best high accuracy, the fraud will be detected. The logistic regression algorithm accuracy will be nearer to 0.99 percent. With this accuracy we can easily identify the frauds. In this web application the admin can login and the authentication will be performed, then the admin can easily uploada dataset for identifying the frauds in the given dataset.	
40.	198W1A05B5, 198W1A05B8	ShaikSameer, K Shanmukha Dr G Anuradha	Smart Lock Management System	This project utilizes the advanced Internet of Things (IoT) and AI technology to improve home security. It is essential to let the right people inside like friends and family and keep the intruders out and to ensure this, a	

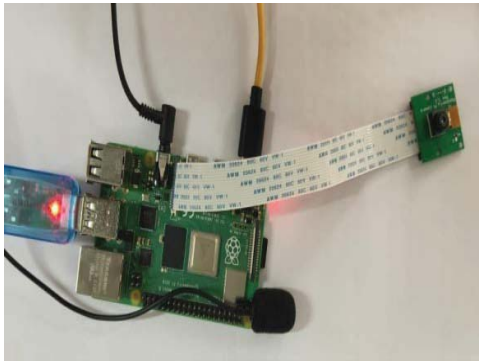
				facial recognition-based door lock system is used. In addition to houses, this system can be implemented at the workplace, college campus, etc. Facial recognition is the easiest way to unlock the door as one doesn't need to make any physical efforts to open the door lock and just needs to look into the camera. The electromagnetic lock on the door will unlock if the image is present in the database. A security alert message in the form of an email is sent to the owner of the house in the case of an intruder. But there always lies a chance of spoofing of an authentic user to manipulate the recognition algorithm. In this work, face liveness detection approaches are categorized based on the various types of techniques used for liveness detection. This categorization helps understanding different spoof attacks scenarios and their relation to the developed solutions. A review of the works regarding face liveness detection works is presented which is done using a combination of Blinking analysis and Texture Analysis of any presented face in front of the camera.	 Figure 1. Block Diagram of Proposed Hardware  Figure 2 Raspberry Pi and Camera Module
41.	198W1A05C5, 198W1A0598, 198W1A0577, 198W1A0582	MedaVenkataSai Lakshmi Jahnavi,Vummaneni Mythili, D.Krishna Reddy, GvVanetha Mr S Rajesh	Crop Protection From Animal Attacks Using IOT	Wild animal attacks on crops are reducing crop yields in the agricultural sector. The most important issue is to prevent animals from migrating from the forest to agricultural land, which has become a growing factor affecting agriculture. Our project's purpose is to protect crops from animal damage and to divert animals without harming them. An animal identify system job is to identify the staying of animals and deliver a message. In our project, we are using a camera module and ultrasonic sensors for the detection of animal movement and transmit a signal to the controller. It distracts the animal by emitting a sound and signal, which is then transmitted to GSM, immediately notifying farmers right away. An Internet of Things based animal identification system is used to send a message to the farmer when an	

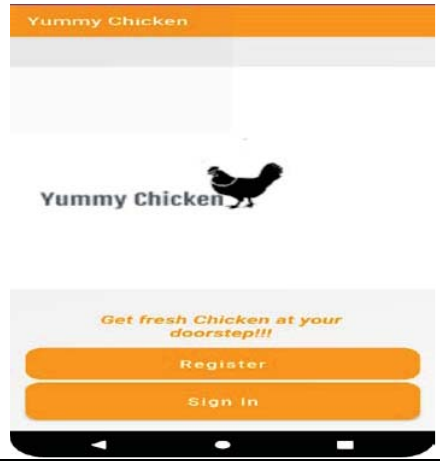
				animal enters the farm. In this project, we use a camera-based identification system to detect an animal and a GSM module to contact or send a message to the farmer.	
42.	198W1A05C0, 198W1A05A2, 198W1A05B7	TellakulaAvinash, SravaniNarayana, ShaikSuhana Sultana Dr B Jayanag	Heart Defect Detection in Fetus	Ultrasonography is performed during early pregnancy for determination of the early complications, anomalies, increasingly for evaluation of the foetus. Therefore, finding an indication for a more detailed anatomic survey of the foetus. Ultrasound can identify the majority of major structural foetal abnormalities. Minor anomalies in 15 new-borns. Greater number of minor anomalies causes greater chance of having major birth defects. The aim of the project is to train the model to detect the abnormalities using the ultrasound images of the fetus at the early stages. As many of the structural anomalies can be treated if detected in early stages, the manual diagnosis requires considerable effort, time consuming and is prone to misdiagnosis. Therefore, using software can avoid misdiagnosis and reduce overall time and effort.	
43.	198W1A05B0, 208W5A0507, 208W5A0508	PasupuletiVenkataUdayKiran, ChandakaLokesh, Karnati Naga Vivek	A Smart Watch for Women Safety and Protection Against Pedophiles	Developed a smart wearable watch that acts as a location tracker. When women or children are in a tough situation, they just need to press the button provided on a smart watch, then the location of that smart watch will be sent to their family member's mobile number. So that they can reach out to the place quickly. No one can find out this as a location tracker, as it looks like a real watch. GPS technology is used to trace the location and Twilio is an API that helps to send SMS to the family member's mobile phone. This is a small-sized, low-cost, simple-to-use smart watch. So that even children can use it.	
44.	198W1A05A9, 198W1A0594 , 198W1A0584	PasupuletiGnanaVenkataKoushik, LankeSumanthVarma, K.VamsiKiran	KissanKart Effective M-Commerce Application	The proposed mobile application can able to help Farmers to communicate directly with end users without the need for intermediaries.	

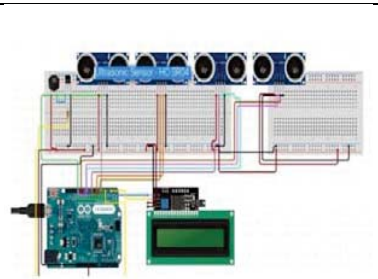
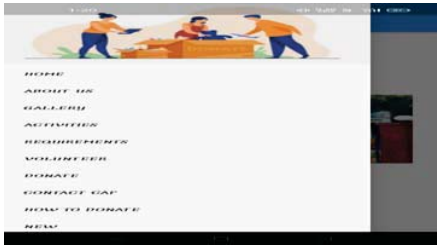
45.	198W1A05B7 , 198W1A05A7 , 198W1A05B9	MutakaniYaswant , PandiAnandVardhan , TatikondaDivyaKiran M Madhavi	Guide Me Glasses	We introduced an assistive smart glass for visually impaired people that can help them to read text, get information from the web, recognize and detect people faces and obtain the present time, weather forecast. When user wants something he/she will initiate the smart assistant with the hot word. After initialization he/she can start giving voice commands. With a voice command an instruction is executed and the output is sent to user in the form of audio. So, with the help of these assistive smart glasses the blind people can lead a normal life like others."	
46.	198W1A05D0 198W1A05D3 198W1A05D4	A L Kalyani, A R Pratap A Sasidhar, B Sri NikhithaArPratap		Secretariat mobile app is developed to help people acquire the services offered by secretariats more efficiently. The app provides the users nearest secretariat. In this app we are providing a feature to find the nearest secretariat form the user location. People used to register their complaints manually by approaching the volunteers. People were unaware that who they have to approach If they have any problem so we have provided a feature to know the details of volunteer who is assigned to them. But Using the app, If any scheme benefits are not properly reached to people, they can address their issue by filling the complaint form provided in the app which is directly forwarded to the digital assistant of the secretariat and the necessary action is taken by them. Using this app the secretariat staff can post the new schemes details so that the users can directly check them. People can provide their feedback on secretariat as well as the volunteer concerned so that the secretariat can analyse the performance and can improve.	

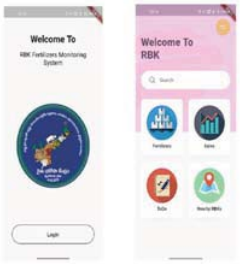
47.	198W1A05G3 198W1A05G8 198W1A05J0	M.SaiMeghana, NcvsSaiChandana, V.MohanaSrivalliDr. D.RajeswaraRao	Crop Recommending Web Application	This project focuses on recommending optimum crops to be cultivated by farmers based on several parameters and help them make an informed decision before cultivation. A website has been built so that user can interact easily. This prediction is done using some machine learning algorithms like logistic regression, Random Forest, Decision Tree.	
48.	198W1A05H9 198W1A05I9 198W1A05J2	Sk. Aysha, V. Jyothika, V. Lavanya Dr S Vasavi	Web Application For Risk Prediction Near Dams of Krishna River	In this project, we first take the current water level of different dams as input. Next, we will check if the capacity exceeds the dam limit, if yes then we will determine how many gates should be opened based on the current water level for each dam. Later, we need to create a map showing the contents of a dam including capacity, water level, number of gates openings and their height using GoogleMymaps. GoogleMymaps helps us to create interactive maps by importing layers of data which we want to represent on the map. In this work we also used MongoDB to store the dam related data like total capacity, water level, no of gates opened and their height. This work helps the Disaster Management Officers to manage the disaster situation. This app is developed for Andhra Pradesh State as suggested by Andhra Pradesh Disaster Management Authority (APSDMA).	
49.	198W1A05E2 198W1A05H6 198W1A05J3	G.Kusuma, T.Sahithi, Y.Suhitha Dr S Vasavi	GIS based web application for hazard and vulnerability analysis during floods.	From pandemics to man-made disasters, all have impacted hundreds of thousands of humans worldwide. India is ranked as the 14th vulnerable country in the global because of severe weather-associated events. Out of thirty six States and Union Territories in India, twenty seven are disaster-prone. With GIS interactive maps,	

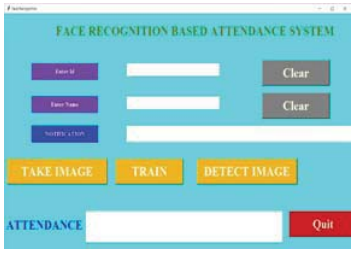
				Government view essential statistics in layers and make knowledgeable decisions. GIS based information providing to the general public, how much area has to be evacuated, what are the alternative places for accommodation, food and medicine supply is important. This app is developed for the state of Andhra Pradesh as suggested by Andhra Pradesh Disaster Management Authority (APSDMA).The technology which is used here is ArcGIS. The database used for storing the runoff data is MongoDB. The accuracy of the CNN model that was built is 95%.	
50.	198W1A05H8 198W1A05I1 198W1A05I5 198W1A05I7	SanjanaGuduru, ShaikReshma, TanmaiVeerapaneni, UppalapatiNikhitha	Intelligent Smart Cooker	An existing system will be developed with more feasibility and additionally added features to use the smart cooker in an efficient manner. The whole project has been divided into six different modules which include three modules that were previously divided which are Developing a mobile application, Remote connection, Setting duration and warming up the items. The latest modules are Adding voltage sensing circuit, Modifying and implementing the code for Arduino, Thingspeak cloud using Wi-fi modem.	
51.	208W5A0514 198W1A05I2 198W1A05D6	NarepalemPadmavathi S. Srivalli Suma Ch. SaiMeghana Dr K Srinivas	VLOT(Vendor Location On Track)	This is an android based application “VLOT” (Vendor Location On Track) which provides a smart interface between customers and street vendors. This application connects customers and a street vendor based on their Geo location and is provided with online payment facility. The project is divided into various modules like the location based services, database collection, message alerts and online payment which provides their own functionalities. This increases the marketing of the vendors as they can reach maximum customers. The app	

				satisfies the mutual benefits of vendors by gaining profits and to customers by getting the required product being at a constant place.	
52.	198W1A05F0 198W1A05I0 198W1A05G1	JandhyalaSravya Sri ShaikHussainSaitaj Lanka NiharikaMr.Ashutos hSathapathy	Food Calorie Estimation using Deep Learning Models for a Pregnant Woman	To solve the problem of lacking continuous medical support, a food calorie estimation application using deep learning models will be developed to help a pregnant woman take a picture of her meals. It will then estimate the calories present in each food category and also tells her what food to include or remove from her diet. A Convolutional Neural Network based on a Single-Shot Detector will be used to detect different food items from the image because of its better accuracy and lower computation time than the traditional algorithms. The number of calories in different food items is then estimated using some techniques and stored data. Finally, a mobile application built on the combined product of detection and calorie estimation will estimate the number of food calories in a pregnant woman's diet and suggests appropriate food items.	
53.	198W1A05G0 198W1A05H3 198W1A05H7	K.Praneeta, P.Jahnavi, S.Shrivarshaa	Mime Recognition For Indian Sign Language	Sign is one of the communication methods of non-verbal communication. Sign Language is popularly used by deaf-mute people for communicating among themselves andalso to other people. It has always been a great challenge for normal people to communicate with the deafmute people as it is tough for them to understand their gestures.Hence the key idea is to bridge the communication gap between the normal people and the deaf mute people. Various sign language systems have been developed, but the systems are neither flexible nor are they cost effective. Hence this project proposes an effective and user friendly Sign language recognition interface which helps the deaf mute people to communicate with normal people easily using tensorflow, keras for gesture recognition.	

54.	178W1A05F1 198W1A05H1 198W1A05I4 198W1A05I6	Bhukya Nikhil Babu OgiralaMurali Krishna Tallapaneni Rahul ThopuriRavindraBabu	Mobile Application On Poultry Marketing	Nowadays, poultry farmers are facing a lot of problems with selling their poultry products to customers. Between the customers and farmers, there are some kinds of mediators, who buy chicken from farmers and distribute it to chicken shops. These mediators are buying chicken less than the actual market price from farmers, which results in a loss for the farmers. This mobile application allows customers to directly contact the farmers and purchase the chicken at the actual price, so that both the farmers and customers can benefit from this application. Direct marketing allows the farmers to get a reasonable profit, and the customers to get fresh chicken at a liable price. We are in the process of including possible different products from farmers in this app.	
55.	198W1A05I8 208W5A0516 208W5A0517	V. Chaitanya, P. Harika, T. Chihnitha, M. VaniPujitha	SMART CRADLE SYSTEM	This system will help the parents to take care of their babies even from a long distance. This system is built based on the 4 parameters. They are wetness, motion, temperature and humidity, and live streaming of the baby. Here DHT11 sensor is used to detect any temperature increase in the room and baby movement is detected by the IR sensor and live streaming will be provided by the esp32 camera. GSM module is also used to send alert messages and calls to the parents if any uncertainty is found with the baby and here will be automatic swinging also be added. This proposed system will decrease the burden on the parents and also helps to make the baby safe without any discomfort and give relief to the parents.	
56.	198W1A05E4 198W1A05E6 198W1A05F3 198W1A05H2	G. Akhila, G. Rochana, Y. Jhansi Lakshmi, P DharithriSravya Mr. S. Ravi Kishan	Blind Assistant	The mobility of blind people in unknown environment seems impossible without external help, because they don't have any proper idea about their surroundings and their mobility is always a great problem. So, we are developing a smart assistant using a stick which helps them to know about their surroundings. It senses the	

				item before the individual and provides the consumer with a vibrational answer and voice command and, the user can travel without anxiety. This Blind assistant stick is the best solution to solve the problems.	
57.	198W1A05E8 198W1A05F4 198W1A05F9	J.Yamini, K.Alekhya, K.Yoshitha	Mobile Application For Child Aid Foundation	Using this app any donor can donate food, clothes, and other items which can be utilize by needy ones.so using the app's Google API technology people can donate the food to nearest NGO without needed to search up for contact information. Many people, institutes wish to donate things to needy organizations. Also, many organizations wish to ask for various things required by them. But there is no source available through which they can satisfy their requirements. Thereby, a mobile application through which people can donate items as per their capacity will be useful creating a bridge between Donor and NGO. The application allows users to create a profile for themselves and the information about a certain family that needs help. This profile will be shown to donators who are looking for someone to donate to. Mainly only information is exchanged. The donators are able to post/see reviews about other people's profiles.	

58.	188W1A05F2 198W1A05E5 198W1A05E7 198W1A05E9	N ChaitanyaNaik, G OohaShree, GH Raj, JD SwathiDr.D.RajeswaraRao	RBK fertilizers monitoring system	RythuBharosaKendram is a place where few activities done manually. YSR RythuBharosa is a program launched by the Government of Andhra Pradesh to financially assist farmers by depositing money in instalments. RBKs were later launched on 30th May, 2020 to supply seedlings, fertilizers and seeds to horticulture, aquaculture and agriculture sectors. RBKs are the medium through which the farmers purchase all the required fertilizers and pesticides. RBKs have to keep track of the availability of the fertilizers and pesticides. RBKs don't have any source to keep track of the stock. They are facing difficulty in checking the available stock every time whenever a farmer approaches. So, a mobile application is being developed for the RBK to keep track of the stock available, refilling and sales made so far. As there is no medium to keep track of fertilizers stock this app is well utilized. Our project helps the officers in analysing the stock availability.	
59.	198W1A05G9 198W1A05H0 198W1A05H4 208W5A0518	Naragam Naga Anjaneyulu, NaralaMohanaSreeVenkataSai Krishna Pitta MokshagnaSai, VemulaVema Sri	Mobile Application For Grocery Shopping	The main objective of this mobile application is to provide the customers to make it interactive and its ease of use. This app will allow customers to make searching, viewing and selection of a product easier. Customers can buy the products from anywhere and anytime instead of waiting in the queue to buy the products. The user can see the list of products that are available. They can then view the complete specification of each product. This app enables the customers to add the items in cart and allows them to select the number of items. And also allows the user to deselect if they don't need the transaction. Customer can make payment through online for the products added to cart. It simply provides the user friendly environment to the customers as well as Admin. The Admin can be able to show the purchase details of all the customers. So ,it is easy for the Admin	

				to view which products are highly purchased and tried to increase the stock of the products. The Admin is responsible for adding the products and can be the person to modify any details of the product.	
60.	198W1A05D7 198W1A05E1 198W1A05F7	ChandrapatlaDedeepya, GopisettiPushpalatha, KattulaChandrika	Care A Pet	In order to take care of your pets when you are out for a vacation, we proposed a project called ”CARE A PET”. The developed android application will show the nearby pet care centres, so that they can book slots according to their availability by chat. In case of emergency time we can call the pets specialist by taking appointment through book a vet on call service using this app. The results were divided into 2 parts: developing the mobile application for advice users and analysing the functionality of the application, by the research purposes. The project also has the potential commercial viability, especially in urban lifestyle living, compared from other means of taking care and monitoring your pets through pet facilities.	
61.	198W1A05J1 198W1A05D9 198W1A05D1 198W1A05G4	VutukuriVenkataSai Davuluru S V N S SAbhijith AlaneVenkatesh MeesalaTeja Dr G Anuradha	Smart Attendance System	This system uses LBPH (Local Binary Pattern Histogram) algorithm for training and detecting the images. The first task is to register the students and take their images. The second task is to train their images. The third task is to detect their faces and mark the attendance. As the face is used for taking attendance, this approach removes the possibility of fraudulent attendance. This system also reduces the paper work for storing the attendance.	
62.	208W5A0513 208W5A0515	N. Vennela, N. TulasimMadhavi	Privacy E-Hospital Management System	The main function of the system is to register and store patient details and doctor details and retrieves these details as and when required, and also to manipulate these details meaningfully System input contains patient detail and diagnosis details, while system output is to get these details on to the screen. The Privacy E-Hospital Management System can be entered using a username and password. It is accessible either by an administrator	

				or receptionist. Only they can add data to the database. The data can be retrieved easily. The data are well protected for personal use and make the data processing very fast.	
63.	198W1A05D2 198W1A05G7 198W1A05I3	A.NaveenSai, M.ChanduSree, S.Poojyeswar Dr K Srinivas	Smart Medicine Box	In this epics project we are making a device that not only reminds the patients to take the pills but it also alerts the user to refill the box when they are about to complete by booking the medicines online. By using simple android app technology and IoT technology this medicine box notifies the patient about when and what medications are to be taken through an Android App message and alarm. This medicine box uses Raspberry Pi and Wi-Fi module to connect the medicine box to the cloud thereby improving the connectivity of the medicine box. The android app provides a simple user interface that is understandable by people of all ages.	
64.	198W1A05D5 198W1A05F8 198W1A05G5	Ch D V S NikithaSravani, KavyaSharmilaSiram , AfroseHussain Mohammad	Mobile Application For Mapping Water Distribution System	We developed a map of water supply system with exact longitude and latitude. The solution to construct this map is our mobile application. The first task is to focus on getting the input data regarding the locations and properties of various water objects from major Overhead Tanks to minor locks and the pipelines as well. The second task focuses on getting the data represented on a map.	
65.	198W1A05D8 198W1A05E3 198W1A05F2 198W1A05F6	CheekurthiAbhinav, GreeshmanthPenugonda, JastiLokeshChowdary, Kandimalla Naga Dinesh	Text Extractor using Image processing and deep learning	In document recognition systems, text extraction is a critical step. Text extraction is the process of extracting text from a picture using Machine Learning. Many offline forms accessible at government offices and other businesses employ text boxes to fill out the information. The data from these physically filled forms must be manually inserted into the computer database, which requires a human to provide the information. we created this design based on OpenCV and Machine Learning using the concepts like CNN, contours. The suggested method uses a combination of ml algorithms to extract	

				text data from similar forms, process it and convert it to text and stores automatically.	
66.	198W1A05G6 198W1A05H5 198W1A05G2	Mohammed Junaid Ahmed RavuriDeepthiMeenakshi Madda Joseph Kishore Dr B Jayanag	RythuBharosaKendram Assistance App	Agriculture is the backbone of India. Officers of agriculture department face lot of difficulties while taking a decision regarding the daily tasks such as sowing, irrigation management, pest management, identifying variety of crops and storage of high yield variety of crops, because everything till now is being written in papers, and piles of papers are really difficult to manage. So, we decided to help them out by converting most required data into an Application using Flutter Framework. Our project expresses the idea of creation of an application which helps the officers in analysing the productivity of the crops and recommend measures for disease affected crop leaves.	
67.	198W1A05E0 198W1A05F1 198W1A05F5	EppalaEswarReddy, TejaswiniSambrajyam J, K YashwanthChowdary Mr J RangaRao	APCNF based android app	AP govt. has initiated RythuSadhikaraSamsta (RySS) which occasionally conducts village level training on natural farming through SHG groups. But it is still unknown to many farmers and there is not much support to them. APCNF is a complete Natural Farming mobile app. It is designed to guide farmers to do APCNF and create a network among them. It provides all the details about natural farming techniques from the start of the crop till the end. It consists modules like weather forecast, crop care, crop marketing, market prices, and discussion forum and govt. schemes. This app is designed completely in telugu.	

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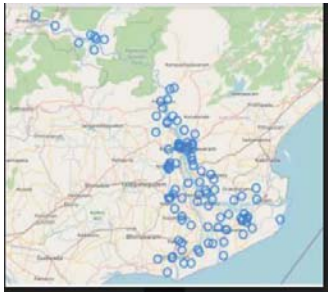
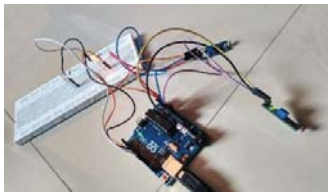
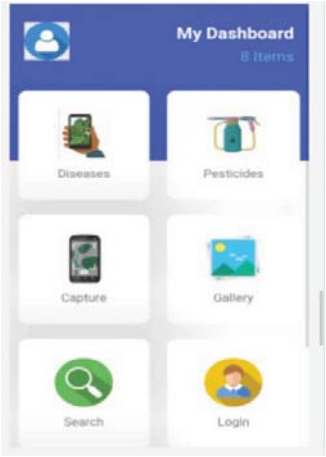
EPICS – Engineering Projects for Community Service
Academic Year 2019-2020

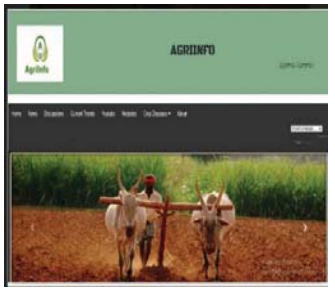
S.No	Student Reg. No	Student Name	Product/ Prototype Title	Product Description	Sample Image
1.	178W1A0508 178W1A0517 178W1A0531 178W1A0546	BarmavathVamsi GummadiSowjanya Lanka Chandana PemmaJayasurya **Mentor:** Dr S Vasavi	Prediction Of Boat Accidents	we tend to try to achieve the individuals by providing the knowledge of the natural calamities at a specifc space and alert the individuals so as to avoid tragic disasters. This requires a platform i.e., a webpage/Application to perform all the functions. Andhra Pradesh State Disaster Management Authority (APSDMA) is making an attempt to help the individuals by providing information of the natural disaster at a selected space and alert the individuals at the particular space. Finding the threshold from the parameters like rainfall, water level, temperature etc., (i.e., most worth for safety) that indicates boats to not enter such explicit areas when crossing the maximum limit. It gives a complete framework on the Early Warning System, forecasting, Safety Standards. These tips give some way forward to reduce the accidents occurring due to poor atmospheric conditions.	

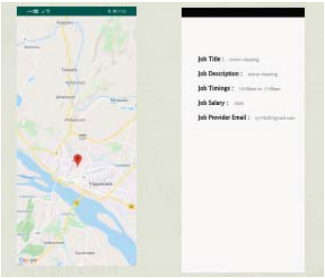
2.	178W1A0509 178W1A0518 178W1A0534 178W1A0548	BethaSantosh GuttikondaRoshini MarepalliRishita Pilli Subhash Guy **Mentor:** Dr K SuvarnaVani	Disease Analysis	We cross reference data by using a semantics-based clustering procedure, extract information from EMRs, and then, cluster them by looking for similar patterns of diseases. Then, biological records in each disease in each disease cluster are analysed to evaluate intra cluster similarity by selecting analytes typologies and values. This website provides the information of various patients who are suffering from diseases in different places. So, that we can predict the diseases that are frequently occurring in specific locations and we can take some safety measures like giving vaccination to people in that disease prone areas.	
3.	178W1A0522 178W1A0524 178W1A0544 178W1A0554	KalidindiPuneeth KanikicharlaTarun PasamJoha UppaluriSahith **Mentor:** Dr P Ramesh Kumar	Fetal Health Monitoring System	The Fetal Heart Rate Monitoring device is a cost-efficient way to check the heart rate of pregnant women. Fetal heart rate is an important indicator or biological index to know the condition of fetal well-being. The goal of the project is to develop a fetal heart rate monitor that can be used by a pregnant mother in home environment. At present in rural areas most of the pregnant women still undergo check-up at the weekly camps set up by ASHA workers. According to Mrs.Syamala, the chief ASHA worker at Penamaluru Govt. Hospital the doctor to patient ratio in rural areas is about 1:200. In this case giving special care to each patient would be very difficult. In the present scenario, providing specialized and proper treatment to every patient is not possible. Though there are devices to measure the fetal heart rate in the market, most of them are too expensive and are difficult to operate by people who don't have proper knowledge of how to use them. The solution to the problem is to design a device which is easy to operate and at the same time cost efficient. The device follows the following phases to produce the readings: 1) data acquisition; 2) data pre-processing; 3) feeding into	

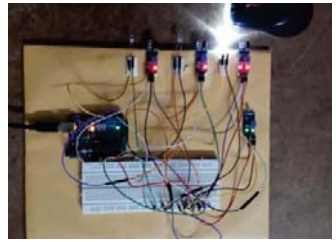
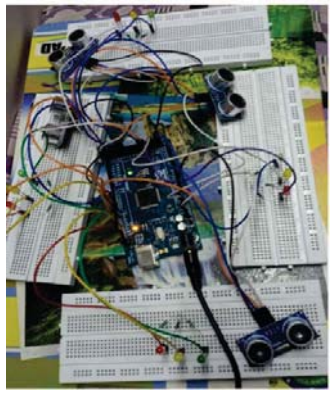
				microcontroller; 4) post-processing and 5) display. The prototype of the device will be tested multiple times to confirm accuracy of the device.	
4.	178W1A0523 178W1A0527 178W1A0552 188W5A0508	KancherlaThanmai KolluriTejasri Shaik Abdul Vahed 188w5a0508 **Mentor:** Dr K Praveen Kumar	Online Blood Donation Application	The aim of this project is to create an application for online blood donation system. This system will be used by the blood banks, hospitals, donors' acceptors. The main purpose of this project is to develop a system that links donors and acceptors. Using this application those who are interested to donate blood register themselves as donors. The system will help users to find out the nearest blood bank corresponding to their location. The system will help acceptors to request for a particular bloodgroup and the quantity of blood required. As soon as the acceptor request for blood an SMS will be sent to all the donors of corresponding blood group. The system will help users to search for the nearest donor of particular bloodgroup. In emergency situations this application plays a crucial role.	
5.	178W1A0526 178W1A0528 178W1A0555 188W5A0511	KaturuPujithaSai KondapalliYojitha VharshavardhanRaghavendra **Mentor:** Mr S Rajesh	Android Application For Ration Shop	"E Ration shop" avoids all Rationshop problems. Every shop's geolocation will be located on the map. All the information regarding shop and shopkeeper respective to the ration card and region is available in the website and Shop opening and closing details will be available and cardholders are notified through SMS and Stock provided based on category. Retailers can add, edit, delete and update their shop's other items also and Complaint forum for complaints by users. The Admin and Moderator features for government and shopkeepers. Authentication system by aadhaar and OTP.On the whole,e-Ration Shop aims to ensure that only the entitled lot receives the subsidized food material	

6.	178W1A0529 178W1A0530 178W1A0558 168W1A0555	KongaraSnehith KusireddySaiTeja VemulaSowmya **Mentor:** Mr P RaveendraBabu	Monitoring Of Cow Calving Using Iot System	Continuous monitoring of cow during calving is an important activity of the farmer. Careful monitoring is required to identify the calving time and to provide the required arrangements to the cow. As monitoring the cow requires many hours of continuous attention we developed a sensor based IOT system which senses the calving time based on the changes observed in the behavioural pattern of Cow. The device measures specific movements of the tail triggered by labor contractions to accurately predict the timing of calving cow. This data is relayed to farmers mobile through the cellular network as an audible alert when contractions reach a certain level of intensity. The device decreases the mortality rate of calves and significantly improves calf and cow survival rate. In market there are many devices that predict calving time but they are harmful as they are injected in cow's body which may trouble them and devices cannot be reused again. But this device is placed on cow's tail which does not create any trouble for the cow and can be reused again.	
7.	178W1A0532 178W1A0533 178W1A0560 188W5A0512	MadalaVenkataSowmya Lakshmi MallampatiAkarsh YalamanchiliAslesha **Mentor:** A Jitendra	Hostel Rental Platform	Hostel rental platform that helps everyone by connecting owners and tenants directly without any brokerage.. This problem can be solved by maintaining a database which stores all the information related to the owners and tenants. This helps both the owners and tenants to maintain the records in a secure manner and can access the information from anywhere. Effectively resolving the rental issues is important to the tenants and the owners and the tenants can easily find rented hostels at best prices by checking among many hostels available at the locality they required, at the same time the owners will be benefited as they can easily rent their homes at market prices by using this hostel rental platform.	

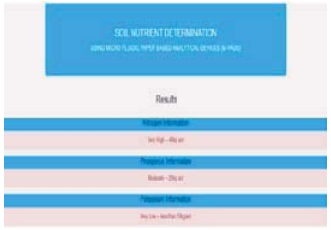
8.	178W1A0535 178W1A0537 178W1A0551 188W5A0503	MekaBhanu Prasad Naga VarunBathina SambanaVenkatesh 188w5a0503 **Mentor:** Mr VVNV Phani Kumar	Automatic Headlight Dipper Using IoT	Headlights with High beams are often dazzling and extremely dangerous for other vehicles on the road. It creates a glaring and over-illumination issue. This paper addresses the answer to the problems stated on top of by controlling the brightness of headlights using sensors that notice a high beam and switch it to a low beam automatically. At present, in most of the vehicles, there are two steps for the light beam switch. One is for high beam other is for low beam. The driver must manually turn the switch whenever he needs to alter the beam of the light. Automatic dimmers are used to switch the brightness from high beam to low beam. These dimmers holds the sensors which have the capacity to switch between the high beam and low beam and vice-versa automatically, thereby it diminishes the light intensity by identifying the nearing vehicle. It additionally eliminates the human interaction of switching between high and low beams, which is automated.	
9.	178W1A0540 178W1A0547 178W1A0557 188W5A0506	PabbuSuryanarayana PillarisettyHemanth VeeramachaneniKhyatiSai **Mentor:** Mrs S Rajeswari	Plant Disease Identifier	Plant Disease Identifier is an app to provide suitable pesticide depending upon the disease identified. The image processing techniques are mostly applied to the agriculture and it provides protection to the crops. Till now there is a lot research going on this particular field of image processing and Internet of things. We decided to develop an app in which user has to take the picture of the diseased plant's leaf. After taking a picture he has to upload it in the app. After uploading it he will get the name of the disease for the particular disease. We are going to implement this by using image processing and other techniques that are used in development of the app like Digitization, Feature Extraction, Image Segmentation, Filtering, enhancing by using following packages and modules numpy, keras, scikit, sklearn.	

10.	178W1A0545 178W1A0550 178W1A0556 188W5A0507	PeketiLalithaSaisreeja RayalaSusmitha Varanasi PhaniTeja Hari Krishna **Mentor:** Mrs S Niharika	Online medical Store Application To Provide Ease Of Access For Medicines	It's well known that many people nowadays are facing difficulties in finding medicines in their premises roaming the streets, and not knowing which store is trustworthy. Medical Store vendors are not able to understand the doctor's writing. Online Medical Store is a mobile application which provides the information of nearby medical stores and facilitates users to check the availability of particular medicines based on their requirement. It consists of modules like Customer Login, E-Prescription, Search Medicines and Pandemic Supplies. It will also provide geolocation of that medical store where medicine is available. This application will be helpful for users to maintain their health record and keep track of the medicines that they use.	
11.	178W1A0561 178W1A0562 178W1A0572 188W5A0513	A.Meghana, A.Likith Naga Sai,Ch.Greeshamanth, A.SaiKalyan **Mentor:** Dr D RajeswaraRao	Farming Related Website	Internet has changed the way we relate with our environment in general. Website, being a part of it is a collection of information correspondingly. People can easily manage to access these when required. The aim of our project is to make a website that provides information to farmers about news related to agriculture, current farming trends and about the crop diseases possible in specific crops and their control measures and provide information regarding other sources out there that help in farming. Making use of google translator in our website people can read the content in their own language. In this way by using technology, we are trying to provide a platform for framers to find out new concepts and new	

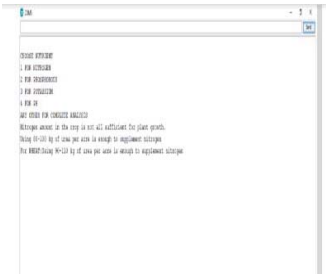
				ways fellow farmers are using.	
12.	178W1A0564 178W1A0566 178W1A0573 178W1A0582	AnumoluLeelaBhavani AtluriCharitha ChilaparthyGeethadarsh Kanteti Bharat Somadithya **Mentor:** Dr S Vasavi	city bus tracking application	This proposed system is used to build a smart city with less traffic jams. The project is designed to develop a density based dynamic traffic signal system. The signal timing changes automatically on sensing the traffic density at the junction. Traffic congestion is a severe problem in many major cities across the world and it has become a nightmare for the commuters in these cities. Conventional traffic light system is based on fixed time concept allotted to each side of the junction which cannot be varied as per varying traffic density. Junction timings allotted are fixed. Sometimes higher traffic density at one side of the junction demands longer green time as compared to standard allotted time. To reduce human efforts, we are introducing smart traffic signal system. Smart traffic signal based on the Arduino mega 2560 & Ultrasonic sensor, in which ultrasonic sensors are placed at one side of road in such a way so as to cover particular necessary area of road from where the vehicles are restricted to pass.	
13.	178W1A0570 178W1A0576 178W1A05A2 178W1A05A6	BhumireddyKalyani GanjiBharath ParuchuriSatyendra Sakhamuri Sri Lekkha **Mentor:** Dr ChRupa	Smart Power Management	Nowadays, power is the backbone of all modern societies. It is the crucial ingredient for the economic growth and the comfort of every nation and the people it supports. Right now, electricity is consumed by everything used by the users. Let's use your PC as an example. If you leave it unplugged 4 hours a day it can cost a greater number of units in a year by silently sipping electricity. The work gives a report about the design of an IOT based smart power controlling device which have the ability to perform switch ‘off’ when battery reaches to threshold value in order to control the wastage of electricity supply automatically. It is done whenever devices like mobiles, laptops, etc. are utilizing the power from switch board.	

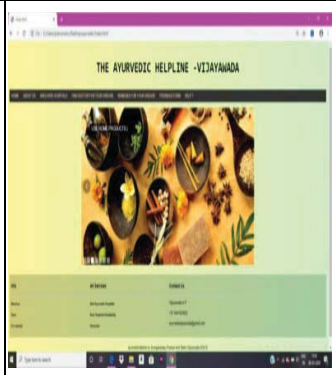
14.	178W1A0571 178W1A0581 178W1A05A5 188W5A0515	ChaluvadiVarshitha Kanneganti Sri Naga Sandhya P Siva Venkata Naga Pavan **Mentor:** Dr G Krishna Kishore	Automatic Street Light Control System	This project gives the best solution for electrical power wastage that occur in street lights by designing system that control street lights with change of the intensity of sunlight and also the manual operation of the street light system is completely eliminated. The street lights will glow with high intensity when there are vehicles on road. As the vehicle passes by, the trailing lights turn dim automatically. When there are no vehicles on the road, then all the lights will remain dim. Thus, we can save great amount of energy. This system will detect the speed of the car and use it to alarm the black spot regions so the people can be alerted and avoid accidents.	
15.	178W1A0575 178W1A0585 178W1A05B8 188W5A0516	DubbaSandeepa KatragaddaNanditha Vemulapalli Manish Chowdary **Mentor:** Mr S Ravi Kishan	Density Based Traffic Signal With Emergency Override	This proposed system is used to build a smart city with less traffic jams. The project is designed to develop a density based dynamic traffic signal system. The signal timing changes automatically on sensing the traffic density at the junction. Traffic congestion is a severe problem in many major cities across the world and it has become a nightmare for the commuters in these cities. Conventional traffic light system is based on fixed time concept allotted to each side of the junction which cannot be varied as per varying traffic density. Junction timings allotted are fixed. Sometimes higher traffic density at one side of the junction demands longer green time as compared to standard allotted time. To reduce human efforts we are introducing smart traffic signal system. Smart traffic signal based on the Aurdino mega 2560 & Ultrasonic sensor, in which ultrasonic sensors are placed at one side of road in such a way so as to cover particular necessary area of road from where the vehicles are restricted to pass.	

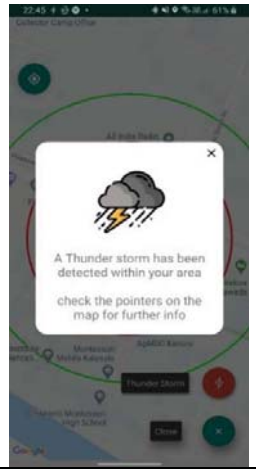
16.	178W1A0578 178W1A0587 178W1A05C0 188W5A0517	GopalamPujitha LukkaVenkata Siva Phaneendra Yeluri Nikhil **Mentor:** Dr G Anuradha	Agrischemes	AGRISCHEMES is a web application which transfers important information regarding the benefits available for farmers to eligible ones among them. It also gives information about the reasons behind fluctuations in the price of some vegetables (which usually have huge fluctuations in their price) like onions, tomatoes, etc., The GOI (Government of India) has introduced several agricultural schemes throughout the country for the benefit of the farmers. Despite of the government efforts, farmers around the world are facing a lot of challenges in agriculture such as lack of money for investment in seeds, required machinery for farming, insufficient water availability and many more, even in this modern era.. The proposed system acts as an interface between end users and the government and picks the list of end users who will be benefited from the schemes and sends a voice message to them in their regional language explaining the complete details about the schemes to which they are eligible and the procedure to avail those benefits. The platform is built using web technologies, webserver, communication gateway, proper set of resources and end users. It is interoperable as the end users need not require even a smart phone. This system creates healthy awareness among farmers. It can also be used for various other awareness programs more effectively. Usingthis system is more feasible andeffective and there is a need of using it in the present world.	

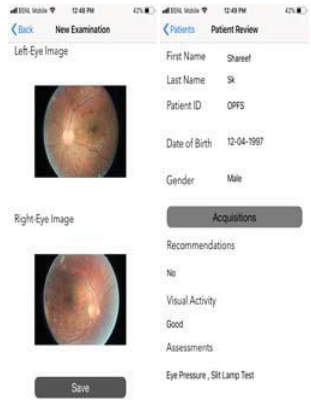
17.	178W1A0579 178W1A0588 188W5A0519 188W5A0520	GummadiVenkataPrasanth Kumar MaddalaKarthik **Mentor:** Mr B Jaynag	Iot Based Smart Saline Bottle For Health Care	IoT based automatic alerting and indicating device is proposed where sensor is used as a level sensor or weight sensor. It is based on the principle that the sensor output changes when fluid level/weight is below certain limit. When Fluid level/weight is low, will alerts the observer through the display or/and mobile phone at the control room indicates the room number of the patient for quick recovery Hospital uses simple electrolytes bottles with no indication, it may create a problem to patient because the reverse flow will start, blood start to flow from body towards bottle. Hospital staff, the constant need to manually monitor the level of bottles is avoided. This is of high advantage to the patients especially during night times. This system also avoids the fatal risk of air bubbles entering the patient's bloodstream, which is a serious threat as air bubbles in blood can cause immediate death. Such a device will create assured of non-harm condition to patients.	
18.	178W1A0580 178W1A0589	Harsha Nikhil Dodda MadireddySriharsha **Mentor:** Dr P Ramesh Kumar	Soil Nutrient Determination	Fertilizers are supplied to the crops to increase the fertility of the soil. Improper use of fertilizers results in acidification of the soil and mineral depletion of the soil. Over supply of fertilizers leads to damaging plants and reducing crop yield. We are going to provide a solution to determine the concentration of the macronutrients namely Nitrogen, Potassium and Phosphorus using microfluidic paper-based analytical devices (µpad) and opencv techniques. We are going to display the estimated concentration of nutrients in a website developed using PYTHON and flask framework.	

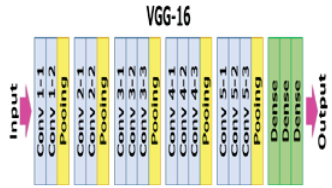
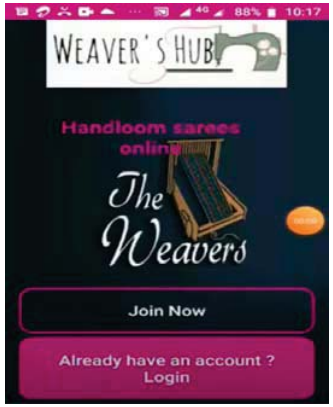
19.	178W1A0584 178W1A0591 178W1A05B1 178W1A05B5	K VenkataSatya Sridhar MalempatiKavya ThasneemRafathShaik VeeradaSaiPavanKalyan **Mentor:** Mrs M V Pujitha	Smart Helmet	A helmet system which is smart enough to detect whether the person is wore a helmet or not, whether he is drunk and also a message is sent when the person is met with an accident. This system checks the two above necessary conditions before the engine of the motorcycle is turned ON. The system implements an alcohol sensor and a switch. A switch is used to determine whether the biker wore the helmet. Alcohol MQ3 sensor is implemented to detect whether the biker was in drunk condition, the output is given to the Arudino. Both the button and the alcohol MQ3 sensor are included into the helmet. If any one of the above two conditions are not met the engine will not start. To detect that accident has took place vibration sensor is used. GSM module will send a message in the form of SMS about the accident and location of where accident took place to the ambulance and family members.	
20.	178W1A0568 178W1A0592 178W1A0593 178W1A05B6	BezavadaVineesha MedarametlaHemanthi MdAsfiaMehjabeen VeeramalluBhanuSree **Mentor:** Mr ARV Pratap	Automated Queue Management System In Hospitals	Disaster Management mobile application that alerts users about upcoming natural disasters and gives information about emergency steps.	

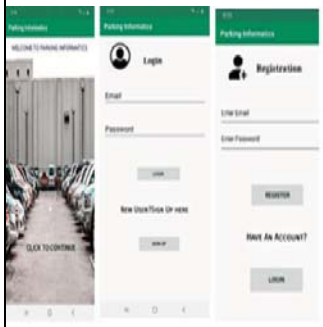
21.	178W1A0594 178W1A0598 178W1A05A0 178W1A05B4	Mohammed AzmathHussain NekkalapudiSaiAditya NukalaHarshita TripuraneniRohit **Mentor:** Mr S Babu	Smart Parking	People owning vehicles face parking problems in most metropolitan areas, especially during peak hours. Locating a parking spot during peak hours in most populated areas like shopping malls, universities, exhibitions or convention centres is difficult for the drivers. The difficulty rises from not knowing where the available spots may be at that required time. Smart parking is a solution to metropolitan cities to reduce congestion, cut vehicle emission totals and save persons' time by helping them in finding a spot to park. The aim of this project is to create a prototype of a parking, mobile application known as Smart Parking System. This system will be used by the mall and any parking system around. The main purpose of this project is to develop a mobile app that will ease the parking process around malls, anywhere around. The system will help control the parking slot availability and also allow drivers to book for a parking slot before reaching the parking area. The system will help control the parking slot availability and also allow drivers to book for a parking slot before reaching the parking area. This application helps people book and see available parking slots.	
22.	178W1A0595 178W1A05A1 178W1A05A4 168W1A05A8	MunnangiTejaVenkata Kumar PallevadaHema Potu Siva Parvathi **Mentor:** Mr ChMukesh	Real Time Soil Nutrient Detection And Analysis	This work gives a report about the design of cost-efficient soil nutrients detection using pre-prepared capsules. Here test can be performed for three different types of nutrients Sodium, Potassium and Phosphorous. Here three test tubes are taken and each one is filled with certain amount of soil and water, and then the mixture is shaken for 15 minutes. Then there occurs a color change in the tube. Here a color sensor is used and the color change in the test tubes is detected by the sensor and compared with the existing information about color-deficiency. Sensory data is processed using Arduino and then information about the deficiency and amount of fertilizer needed to overcome the deficiency is given to	

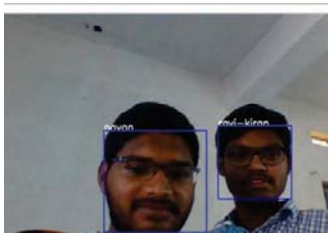
				the farmer.	
23.	178W1A0596 178W1A05A7 178W1A05A8 178W1A05B7	MyneniMeghanasai SrungavarapuPranavi T VenkataSai Sri Ram VelagaSahithi **Mentor:** Mrs M Srilatha	Ayurvedic Web Application	Ayurvedic medicine is considered as pseudo-scientific. Ayurveda is the knowledge of life and how to live it to its full potential body, mind and spirit. It is connected to the conscious universe we arose from and a life in balance with it. Today people are mostly showing interest towards ayurvedic medicines than allopathy as there are no side effects in them and are used mostly to cure long term diseases. We are going to make a web application to the society regarding the awareness of Ayurveda and making them know about the hospitals in different areas in our (Vijayawada) city and make them easy to book an appointment through our website. We are also displaying remedies for different kinds of diseases that are cured by using Ayurveda. We are using HTML, CSS to develop our website.	
24.	178W1A05C1 178W1A05C2 178W1A05C3 178W1A05D1	Adavikatla Ajay Babu Addanki Siva Balaji BandlamudiBharath GantasalaVijaya **Mentor:** Dr D RajeswaraRao	Real Time Water Quality Measurement System Using IoT	The main motive of our project is to find the quality of drinking water using a device which consists of different sensors for measuring different components present in water and it will send status of water to cloud for further analytics and visualization purpose. The system consists of assorted water quality measuring sensors like turbidity, conductivity and temperature, microcontroller ESP8266. The water quality measuring system uses turbidity, conductivity and temperature device to measure the standard of water. This device then measures the corresponding values of the water.	

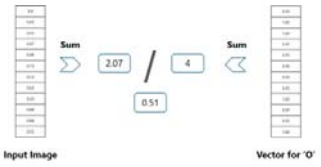
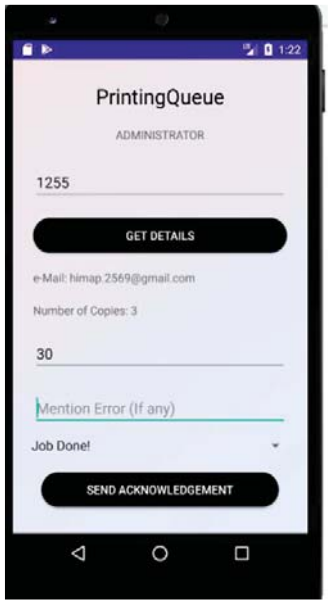
25.	178W1A05C4 178W1A05C5 178W1A05C8 178W1A05D3	BellamkondaKatyayani BitraLahari Chukka Jashuva Genji Chandra Sekhar **Mentor:** Dr K Srinivas	Android App For Laptop Rent And Repair System	A model is proposed a mobile application called Efficient Laptop Renting System. The basic idea is to create an android application platform to rent and let people lend the laptops on demand online which is available 24/7 removing the constraint of time and location. The added advantage is that renters can get a laptop with customized features and pre-installed software such as java, python, etc and lenders even after putting device for rent have the right to reject a rent request. A lender can lend more than one device. In order to achieve the key factor security, shared responsibility model is implemented between net centers and users taking advantage of net centers security trait	
26.	178W1A05C6 178W1A05D0 178W1A05D4 178W1A05G9	ChiruhasBobbadi Davuluru S V N S SAnudeep GorlaUpendra ThammisittyVenkatesh **Mentor:** Dr S Vasavi	Geospatial Based Thunder Storm Alert System	A mobile application which can warn users by sending a push notification when a thunder storm is likely to occur nearby. There is data available about the thunderstorms and lightning provided by Earth Networks**,** using this data and on-board algorithms we can predict where a lightning is likely to occur When a prediction is made its latitude and longitude positions are also calculated, once we have the GPS coordinates, we can send a notification to the users who are near to the calculated coordinates, advising them to preferably stay away from the region because there is a high chance of lightning in the region.	

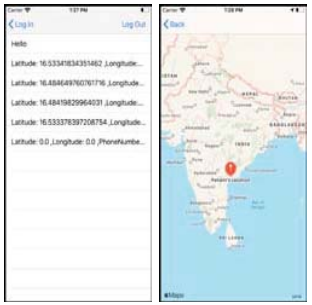
27.	178W1A05C9 178W1A05D2 178W1A05D6 188W5A0525	Damarla Sri Harsha GeethikaNimmagadda HanumanthuSaiBhavana **Mentor:** Dr K SuvarnaVani	Application Of Collection Of Eye Specific Data	Medical health systems have been concentrating on new techniques for speedy diagnosis. As the amount of image data in imaging center of ophthalmology is increasing, analyzing and processing these data is in need. The aim of this study is to develop a general User Interface for recording diagnostic data to facilitate auto-prediction of eye diseases. It is to ensure error-free data entry by developing a user - friendly interface. Furthermore, Machine Learning algorithms were used to analyze patient data based on multiple parameters and clinical observations. This data will be structured according to hierarchies designed by medical experts. Furthermore, the system is designed to evolve by adding new features and classifications for both symptoms and diagnosis. As many of individuals doesn't care much about their vision for this reason, there is a need for a system thereby digitize the examination by capturing images of an eye on regular basis and to facilitate auto-prediction of eye diseases so there by redirecting to the corresponding specialized and localized doctors there by preventing the misdiagnosis up to some extent.	
28.	178W1A05D5 178W1A05D9 178W1A05E1 188W5A0526	GuntakaSaiPravallika Koneru Sri Thanvi Lanka Kundana **Mentor:** Dr ChRupa	Crop Prediction Using Soil Fertility	IoT is playing a vital role in the everyday life of a human being. It is being used in almost every domain. Every year crops do not grow properly due to lack of climatic conditions and nutrients to support for the growth of the crop. Soil fertility is the most important factor to be considered while growing a crop. The measurement of Soil nutrients is required for better plant growth. All soils are not suitable for all types of crops. In this work, the proposed mechanism is to effectively predict the crop which is suitable to that soil. The main issues identified by the literature survey are they used soil testing laboratories and some chemicals which are not advisable. If the farmers want to know the fertility of the soil, they need to send the soil to the lab for testing which is a	

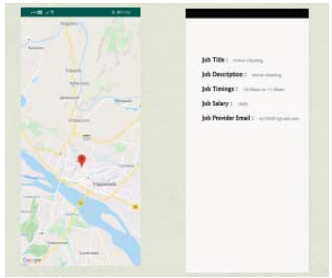
				timetaken process. This issue has been resolved by proposing a mechanism that monitors by taking all the parameters into account that can predict the crop by depending upon the pH, moisture, temperature and humidity values. The main objective of this work is that it produces accurate and reliable results and also cost-effective when compared to other existing mechanisms where it helps the farmer to analyze the fertility of their field and plant the better crop to increase their productivity and profit.	
29.	178W1A05D7 178W1A05E2 178W1A05E6 188W5A0532	JyothirmaiSai Sri Gelli Madduri Lakshmi Akhila Mohammad RoshanTanveer **Mentor:** Dr G Krishna Kishore	Plant Disease Detection	Disease detection plays an important role in agricultural fields as having disease in plants is quite natural. If proper care is not taken in this area, then it can cause serious effects on plants due to which respective product quality/quantity or productivity is affected.	
30.	178W1A05D8 178W1A05E3 178W1A05E9 188W5A0536	Kondapalli Sri SaiDivya Mannam Naga Sivaram Natta GunadeepVignan **Mentor:** Dr G Anuradha	Weavers Hub	Although there are many advancements in the field of Textiles i.e., digital marketing of clothing of various brands, the real satisfaction to the customer is when they get the required and original product at a fair price. The reality of getting the original handloom product in the way of online service is fetching out the distributors but not the real people i.e., weavers, who work 15 hours per day for manufacturing the required handloom products.	

31.	178W1A05E0 178W1A05E4 178W1A05E7 178W1A05F0	Lahori Lakshmi HimaBindu MatsaDivya MuddanaKeerthana NeerukondaKhyathi **Mentor:** Dr G Kranti Kumar	Parking Informatics	With the increasing population, the amount of vehicles is increasing considerably in metropolitan areas. The world is developing towards a smart living approach. Smart cities are a new and very effective concept highlighting the use of technology. The parking management in a metropolitan area becomes very difficult as there is a lack of knowledge of proper parking space. For example, in cities such as Pune, Mumbai there are numerous vehicles used daily, therefore managing these vehicles' parking at personal level becomes a challenge. One aspect of the solution is parking management. The vehicle's parking management will utilize the available space and avoid unnecessary parking problems. The user will only need to download this app and click the button to find the nearest location for parking. The security of the vehicle is ensured and the user's data while registering remains safe. Park Smart is a thoughtful approach that will increase user's convenience.	

32.	178W1A05E5 178W1A05F4 178W1A05G0 178W1A05H8	MedidhiMydhili PatibandlaRamya S Rishitha YannamaniBhargavaSaiSurendra **Mentor:** Mr B Jaynag	Android Application For Rental Houses **: FYBA – FIND YOUR BEST APARTMENT**	Now a days, searching for a rental house has become an energy draining task for all the people, since they should physically go and visit each and every place and check if there is any house available for rent. In order to reduce the effort, put by a person to find a house we came up with an idea of developing an android application which will be useful for the tenants who are in search of houses to relocate. This application will serve as a platform for tenants and owners. The app contains all the details of the apartments that are available for rent in a particular city.	
33.	178W1A05E8 178W1A05F5 178W1A05F8 188W5A05G5	Nalluri Edison Pavan Kumar Kasiralla Potluri Dinesh **Mentor:** Dr K Praveen Kumar	Criminal Face Detection In Public Riots	In order to help the police department to easily filter out the investigation process our model helps them to identify the first suspects and then to proceed further.	

34.	178W1A05F2 178W1A05F6 178W1A05G8 188W5A05I0	Paladugu G Sahithi PoluriSaiKiran Reddy TammuMadhubabu Sravani **Mentor:** Dr K L Sailaja	Plant Disease Detection Using Convolutional Neural Networks	When plants and crops are affected by pests it affects the agricultural production of the country. Usually, farmers observe with their eye and identify the disease that the crop is affected by which may be is inaccurate. Automatic detection using image processing techniques provide fast and accurate result. Advances in computer vision provides an opportunity to expand it use in the field of agriculture.	
35.	178W1A05F3 178W1A05F7 178W1A05H3 188W5A0535	ParasaHimaVarshini Ponduru Lakshmi Charitha VallurupalliSaiNagini **Mentor:** Mrs K S Vijayalakshmi	Development Of A Mobile App Using Android Studio, Digitizing The Queues At The Printing Machine	Printing a piece of paper hardly takes a minute and for that single minute, people generally wait in long never-ending queues at the printer stations for their turn to get a printout. The majority of these people include students and employees from professional fields trying to make it out of the rush hour as soon as possible. Though there are printing stations available in colleges especially for students, they exhibit the same rush hour since all of the students tend to get their printouts at the same time, generally before or after the college hours or in between, during breaks, resulting in taking up huge amount of time out of the students' precious time. "printing Queue", a mobile application developed in an attempt to eliminate the never-ending queue hogging up daily schedules for a job that could be done in a minute. The application allows the users to register/login, to upload their PDF files on the go, guided by the simple UI in the app, further leading to storage of the file at the server-side (the printing station) database which is developed using Firebase tool provided in Android Studio. As soon as the file is uploaded, the employee at the printing station prints it out and keep it aside, labeled with a token which is generated while the file was being uploaded, for the user to pick it up, thus eliminating the annoying queue and having an effective impact on the student's productivity throughout the day.	

36.	178W1A05F9 178W1A05G3 178W5A0531 188W5A0529	RisheetYalamanchili ShaikAlthafHussain Aravind Rafi **Mentor:** Mr V SambasivaRao	Smart Health Detection	. Here we propose a system that allows users to get instant guidance on their health issues through an intelligent health care system. The system is fed with various symptoms and the disease/illness associated with those systems. The system allows user to share their symptoms and issues. It then processes user's symptoms to check for various illnesses that could be associated with it. Here we use some intelligent techniques to guess the most accurate illness that could be associated with patient's symptoms. Admin can add new disease details by specifying the type and symptoms of the disease into the database. Based on the name of the disease and symptom the system works. Admin can view various disease and symptoms stored in database. This system will provide proper guidance when the user specifies the symptoms of his illness. In this Smart Health System, the user can know the disease based on the symptoms given by the user and also it allows us to know the precautions also. By the way it also helps the user to know the symptoms and precautions of a particular disease	
37.	178W1A05G1 178W1A05G7 188W5A0528 188W5A0530	SaiduDivya TadepalliShanmukhaDatta SaiSasank **Mentor:** Mr J RangaRao	Hospital finder	whenever user enters the phone number and clicks on the button, it will automatically get their GPS and finds the location of nearest registered hospital and gives notification to them. This app consists of 2 user interfaces. One interface is for users who requests for an ambulance and another interface is for hospitals to register their hospital to our database. On our user side user interface, there will be one text field to take the phone number of informer and a button to send the request to the server. On the hospital side user interface, there will be a registration page to register the hospital to the database. Registration page consists of fields to enter hospital name and other details of hospital. Once a hospital registers itself, our app will get their current GPS	

				location and stores their values in database. Whenever user clicks on button, app will get their GPS and compares with GPS values of hospitals in database and gets the nearest one and send notification to the corresponding hospital.	
38.	178W1A05G2 178W1A05H5 188W5A0531 188W5A0533	SeethepalliPraneetha Vejendla Jaya Vardhan 188w5a0531 188w5a0533 **Mentor:** Mr N Sunny	Job Search System In Android Environment-Application Of Intelligent Agents	The main objective this project is to provide an easy-going application for people who are in search for small paid work in our local area. It is for users who are in need of some quick cash and willing to do small works.	
39.	178W1A05F1 178W1A05H6 178W1A05H7 178W1A05G4	Nikhil BabuBhukya VemulapalliYuva Sri VutlaBhavana Shushma Sri Kurra **Mentor:** Mrs Ch Raga Madhuri	Dengue Alert	A person hit with dengue can register himself by giving his location. Once registrations come from certain places, they will be stored in the database and will be updated every time a user comes up with an affected region Thus, this helps in finding out the dengue-prone areas. A certain set of symptoms will be displayed to the users who are doubtful of their health condition. They could choose amongst those based on which their level of seriousness is predicted. Irrespective of their level, we always suggest them to consult a doctor and get treated.	

40.	178W1A05G6 178W1A05H0 178W1A05H2 178W1A05H9	SreeBhanuGummadi Tulluri Mohan Sai VallabhapurapuSwetha YarlagaddaBhavya Sri **Mentor:** Mr V Sandeep	College Radio	Here we are designing a college radio that can cover up to the organizational level. By using this campus FM students can make advantage of giving announcements with in campus or any important news. It consists of FM station that can be controlled and maintained by either students or the organizational members. It provides a path for the students to explore their talents in various streams. This proposed system of FM transmitter is established by using raspberry pi board. Here the Pi board acts as a server as well as FM transmitter. By using this PI board, the cost is reduced to great extent which allows a platform of webcasting of radio. Small antenna with low RF is used as the FM radio is using within the campus. This FM requires very low voltage as the PI board consists very low voltage.	
41.	178W1A05H1 178W1A05H4 188W5A0527 188W5A0534	TummalapalliYukthiSravani VasanaVineela **Mentor:** Ms V Deepa	City Bus Tracking App	It is a mobile application where the the location of city buses is tracked by the gps location of the bus driver.