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1	CSE	Prof. Nagaraj	4VP14CS030 4VP15CS055 4VP15CS066 4VP15CS068	Smart parking and toll collection system	Functional	For huge parking scenario it is a bit hectic to keep track. In recent times the concept of smart cities have gained great popularity. Consistent efforts are being made in the field of IoT in order to maximize the productivity and reliability of urban infrastructure. Problems such as, traffic congestion, limited car parking facilities and road safety are being addressed by IoT. The proposed Smart Parking system consists of an on-site deployment of an IoT module with web application that is used to monitor and signalize the state of availability of each single parking space. Authorization RFID card or tag will be given to each user, which carries the vehicle number or other details. If the user is authorized and space is available in the parking, then the parking slot will be reserved and the user is allowed to park the vehicle in parking place else the user is not allowed even the user is authorized person. RFID readers, RFID labels, computers, barriers and software are used as for the main components of the RFID technology. Check-ins and check-outs will be handled in a fast manner without having to stop the cars so that traffic jam problem will be avoided during these processes
2	CSE	Prof. Ashwini P	4VP14CS068 4VP14CS105 4VP15CS065 4VP15CS095	Smart shopping using android and iot	Functional	A supermarket or a hypermarket is a form where wide variety of product items is available. These product items can be food, beverages or any household product. The main purpose of supermarkets is to provide availability of all the products and save the time of the customers but sometimes customer gets frustrated while waiting in the queue at billing counter and sometimes they get confused while comparing the total price of all the products with the budget in the pocket before billing. To overcome these problems, we have designed a smart trolley using a smart phone and Arduino. With this system, there is no need for customer to

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						wait in the queue for the scanning for the product items for billing purpose. Supermarkets or Hypermarkets provide this faculty to only those customers which having membership cards. When the customer inserts the membership card in the basket or trolley only then it will work as a smart trolley. Otherwise, it will work as a normal trolley. Supermarkets and hypermarkets use this technique as a strategy to increase the number of customers
3	CSE	Dr. Raghavendra S	4VP14CS069 4VP15CS037 4VP15CS042	Intelligent bicycle with iot	Functional	The bicycle is offer advantages compared than smoky vehicles, e.g. it can be used as a government's program for reducing carbon emissions as well as minimalizing the noise levels in the city. Moreover, the bicycle is used as an alternative transportation for tourists who want to explore the visited city. By seeing the potential of a large application in the bicycle rentals, some cities have been installed a "Bicycle Sharing System", which is a bicycle rental system that involves digital signage as authentication and security process when the user making transactions in borrowing a bike. But the price of these devices is very expensive in installation. This paper discusses the design and implementation of bicycle sharing systems. so, our intelligence bicycle is implemented with some of the sensors. And for bicycle itself we have an android application, with the help of the android application the user can ride the bicycle. The sensors implemented in the bicycle will help the riders while riding, like if the user doesn't know the route, the bicycle will indicate light indicator as a navigation direction. In the night time the bicycle will automatically switches the headlight on/off. If any one tries to unlock the bicycle manually it will make a alarm for security purpose and for the Admin, provided an local database.

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4	CSE	Prof. Prabhakar K	4VP14CS109 4VP15CS012 4VP15CS013 4VP15CS014	A cloud based compiler for smart devices	Functional	As it is a competitive world and very fast world, everything in the universes is to be Internet. In this Internet world all the things are on-line. So we created software called On-line Java compiler. The main aim of this project we can easily write a Java program and compile it and debug in on-line. The client machine doesn't need to have compilation software such as micro soft visual studio. The paper aims to describe an on-line compiler which helps to reduce the problems of portability and storage space by making use of the concept of cloud computing. The ability to use different compilers allows a programmer to pick up the fastest or the most convenient tool to compile the code and remove the errors. Moreover, a web-based application can be used remotely throughout any network connection and it is platform independent. The errors/outputs of the code are stored in a more convenient way. Also, the trouble of installing the compiler on each computer is avoided.
5	CSE	Prof. Nischay Kumar Hegde	4VP15CS001 4VP15CS007 4VP15CS033 4VP15CS064	Enigma- Divide and store	Functional	Now a day's cloud computing is used in many areas like industry, military colleges to storing huge amount of data. We can retrieve data from cloud on request of user. To store data on cloud we have to face many issues. To provide the solution to these issues there are n number of ways. The main aim of this project is to provide a methodology to safely store and retrieve those files. Some files stored as a whole may get hacked which may result in threat to nations security. Shamir's Secret Sharing algorithm would definitely protect data against the strong security attacks to provide a safe and secured storage for the military and health care and this method can also be used for file security for cloud storage. Divide file F into n sub file pieces in such a way that F is easily reconstructable from any k sub file pieces, but even

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						complete knowledge of k-1 pieces reveals absolutely no information about F.
6	CSE	Prof. Radhika Shetty D S	4VP15CS002 4VP15CS071 4VP15CS095 4VP15CS101	Home automation using voice command	Functional	Home automation is one realization of the Internet of things that allows us to control devices and systems at homes from different locations at any time where (Things) are connected to the internet in one way or another. Electronic devices are controlled by using a android application instead button method. All electronic devices are connected to ESP8266 through relay module and connected to android smart phone through internet. ESP8266 sends status information of the devices to Android application. The micro controller in turn controls the relays connected to it as required, turning the device connected to the respective relay On or OFF as per the users request to the Google Assistant.
7	CSE	Prof. Harivinod	4VP15CS003 4VP15CS036 4VP15CS051	A bimodal biometric authentication system using face and fingerprint	Functional	Bimodal biometric approaches are growing in importance for personal identification and verification. They are going to provide better recognition result and improve security when compared to unimodal system. Biometric recognition system use a single trait for identification and authentication but it has some limitations like spoofing, noisy data and lack of performance. To overcome the limitations of unimodal system, bimodal biometrics system consisting of combination of face and palm-print has been proposed. In training phase, the use of current available face and palm-print datasets are taken for training and result is stored in knowledge base. The final identification is done using Logistic Regression Classifier which gives the high accuracy. The experimental results confirms that bimodal biometric system performs better than unimodal system.

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8	CSE	Prof. Mahesh Prasanna	4VP15CS004 4VP15CS019 4VP15CS047 4VP15CS049	Heart disease analysis and prediction	Functional	The diagnosis of a disease is the most crucial job in healthcare field. If the diagnosis of disease can be done early, many lives can be saved. However accurate detection of heart diseases in all cases and consultation of a patient for 24 hours by a doctor is not available since it requires more sapience, time and expertise. To get an accurate and quick diagnosis of the heart disease, datamining classification techniques are used which save the time for both doctors and patients. Heart disease are the most common cause of death worldwide over the last few decades. And it becomes one of the most difficult disease to diagnose. The aim of research paper is to design a GUI based interface to enter the patient record and predict whether the patient is having heart disease. And also suggest the doctors for further treatment. The system uses medical terms such as sex, blood, pressure, cholesterol like 13 attributes to predict the disease. The Naive Bayesian classification technique is analysed on heart disease database.
9	CSE	Prof. Raghavendra K K	4VP15CS006 4VP15CS009 4VP15CS015 4VP15CS030	It cell indent processing system for VCET	Functional	Indent Management System (IMS) is a complete solution in e-procurement process. It allows for completely tracking and management of goods, services, resources ordered, procured, in stock and out of stock items. Used widely in Universities, Educational institutions, Government & Mass Production Industries involving various indents across various sections/department of the industry. i.e. inter-department requirements.
10	CSE	Prof. Harivinod	4VP15CS008 4VP15CS025 4VP15CS029	Video in brief- a query based surveillance video briefing system	Functional	The power of video over still images are the ability to represent dynamic activities. But video browsing and retrieval are inconvenient due to inherent spatio-temporal redundancy, where

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			4VP15CS038			some time intervals may have no activity, or have activity that occurs in small image region. Video in brief aims to provide a compact video representation, while preserving the essential activities of original video. The amount of captured video is growing with increased number of video cameras, especially the increase of millions of surveillance cameras that operate 24 hours per day. Video in brief can be applied to create a synopsis of endless video streams, as generated by webcams and by surveillance cameras.
11	CSE	Prof. Bharathi K	4VP15CS010 4VP15CS053 4VP15CS090 4VP15CS091	Children safety monitoring using IOT	Functional	In this modern and fast moving world, human safety and security has become an important issue. In the past few years, crime against school going children has grown rapidly. In this paper, a prototype Children Safety Monitoring using IoT is implemented using Global Positioning System (GPS) and Global System for Mobile Communications (GSM) technologies. The system is built on nodeMCU ESP2866 microcontroller board and uses a commercial GPS receiver to compute the position of the child continuously. The child's position information is periodically sent through GSM to parent's smart phone (as a notification containing latitude and longitude value). At the school end a website is developed to monitor child's location. This system can help the parents and the school authorities to monitor the children when they leave the school or they go missing.
12	CSE	Prof. Roopa G K	4VP15CS018 4VP15CS034 4VP15CS035 4VP15CS058	Monitor the preservation of food grains at warehouse using iot and smart sensors	Functional	India is one of the biggest agricultural lands in the world. Still in India, food grains are stored at warehouse using traditional technology which leads to problems such as theft, rain and variation in temperature and humidity, attacks of rodents, insects etc. Objective: To monitor the temperature and humidity level,

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						fire incident and moving object detection in the warehouse. Methods/Analysis: we have integrated smart sensing devices and camera with Internet of Things (IOT) and Wireless Sensor Networks to preserve the quality and quantity of the stored food products. Findings: This device can be controlled and monitored from remote location and delivers real time notification based on information analysis and processing. Improvement: Instead of web application, we developed android application, so that owner can easily get warehouse information.
13	CSE	Prof. Prabhakar	4VP15CS020 4VP15CS022 4VP15CS044 4VP15CS050	IOT based smart city	Functional	This paper focuses on design and implementation of an IOT based smart city using Arduino Uno. Aim of project is to create an urban IOT system that helps to achieve the smart city. Now a days automation plays important role in implemented system three parameters are automized which are flood detection system, accident detection and traffic management. Such type of automized system can work more efficiently as compare to manually operated system which saves human efforts and increases accuracy of system.
14	CSE	Prof. Pramod Kumar	4VP15CS021 4VP15CS023 4VP15CS024 4VP15CS027	Vehicle document verification based on number plate recognition	Functional	The police forces use vehicle number plate for legal vehicle authorization purposes, to check if a vehicle is registered or not. Most of us keep the vehicle papers in the vehicle itself, which is not at all safe in case of theft. In today's world, it is not secure to carry our vehicle papers and wherever we go. Hence a system must be designed in which it is not necessary to carry our important documents to each and every place for verification. The aim is to design a system which captures the image of the number plate of a vehicle using a camera and the details are being retrieved. Then the details retrieved from the number plate in text

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						format is used to extract all the important information of the vehicle like, the name of the owner, address of the owner, Insurance last paid date, emission test date etc. from the database. For us, it is useful as we do not have to carry our documents to every place with the fear of losing them
15	CSE	Prof. Santhosh Meharwade	4VP15CS026 4VP15CS032 4VP15CS052 4VP15CS057	Surveillance assist machine based on IOT and image processing	Functional	Nowadays surveillance has become an important factor for maintaining the security of a nation. Also, it is very much needed during disaster management time. Patrolling the border is one risky task and it is not possible to patrol at each and every moment. To accomplish such risky tasks robots are the prime choice. In this paper an Unmanned Ground Vehicle (UGV) based on Raspberry Pi with remote monitoring and control through Internet of Things (IoT) has been developed which will save human life and detect enemies. The camera sensor captures live video on which Image Processing will be applied to detect humans. This video is live streamed to an Android device which will also control the robot. This system can also be modified for various other applications that involves surveillance.
16	CSE	Prof. Nischay Kumar Hegde	4VP15CS028 4VP15CS031 4VP15CS041 4VP15CS056	App Accompanied smart refrigerator	Functional	As the year passes the technology makes everything smart. Intelligent appliances are reducing human's effort day by day. We can find the smartness in home, restaurants, shops etc. Smart refrigerator is the one of the intelligent appliance which reduces human effort with the help of sensors. In previously established system, it will notify which vegetable is about to exhaust. Our refrigerator is capable of sensing and monitoring the contents and also capable of notifying scarce items and self-ordering the them.

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17	CSE	Prof. Bharathi K	4VP15CS039 4VP15CS040 4VP15CS043 4VP15CS060	Iot based domestic fish feeder	Functional	The project is mainly designed for monitoring the fish in the tank. The model consists of mechanical, electrical and communication components. It is integrated with IoT (Internet of Things).The mechanical part in which the stepper motor will be controlled by Raspberry Pi through web interface, by which care-taker can feed the fish through appropriate rotation of the container in which food is present. The electrical part consists of Raspberry Pi module and a web-camera that provides web-camera and live streaming of fish. The web interface consists of different buttons where user can have scheduling types, feeding data, live Streaming of fish, and can capture the pictures etc. Two modes of feeding is available that is manual feeding in which care taker feed by web interface or via pre-scheduled feeding time set by the care-taker and automatic feeding where the care-taker must fix the schedule in the web page. Temperature Sensors are used to maintain the humidity levels of water if it exceeds the notification will be sent to the care-taker.
18	CSE	Prof. Savitha M	4VP15CS046 4VP15CS076 4VP15CS081 4VP15CS094	Crop Analysis And Profit Prediction	Functional	This paper is to build a system which will gather information about all the crops cultivated in different places. The farmers can come to know about the ongoing crop details and predict the best crop that allows him to get more profit. This system uses various criteria such as place, population, crop type, soil type, stock, current requirement, season, number of farmers cropping the same crop, crop duration etc. to predict the best crop for farmers.
19	CSE	Prof. Sandesh	4VP15CS061	Design and development of real	Functional	Waste collection and its management was a major challenge with

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		Karanth	4VP15CS073 4VP15CS089 4VP15CS097	time smart garbage management for puttur town		municipalities who are working to maintain a cleaner urban environment. The most important reason for waste collection is the protection of the environment and the health of the population. Rubbish and waste can cause air and water pollution. Rotting garbage is also known to produce harmful gases that mix with the air and can cause breathing problems in people. In this regard to maintain a Smart Garbage Management System, the proposed method will monitor and will detect the garbage fullness and avoid the overflow of trash from bin. Then, later recommends the status of bin and updates a message via Android app.
20	CSE	Dr. Raghavendra S	4VP15CS062 4VP15CS082 4VP15CS086	Splitting and merging techniques for secure data storage in multi cloud	Functional	Cloud computing is a utility computing for on demand data storage and security essentials provided to the clients within time. Simply, it is the approach of providing technology to the users, by the usage of Internet servers for data storage and processing. Although, this has been a radical mechanism, changing way to enterprise hardware and software design and findings, the reliability and security still stands as two biggest concerns about cloud storage. In this paper, we present a splitting and merging techniques for secure data storage in multi-cloud, which simultaneously supports dynamic update operations like deletion and insertion of documents. Specifically, the vector space model and the widely-used TFxIDF model are combined in the index construction and query generation. We construct a special tree-based index structure and propose a "Greedy Depth-first Search" algorithm to provide efficient multi-keyword ranked search. The secure kNN algorithm is utilized to encrypt the index and query vectors, and meanwhile ensure accurate relevance score calculation between encrypted index and query vectors. The proposed scheme can achieve sub-linear search time and deal with the deletion and insertion of documents flexibly.

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21	CSE	Prof. Savitha M	4VP15CS067 4VP15CS075 4VP15CS077 4VP15CS093	Real time object detection and tracking using OpenCV	Functional	Abstract— Moving object detection and tracking are the more important and challenging task in video surveillance and computer vision applications. Object detection is the procedure of finding the non-stationary entities in the image sequences. Detection is the first step towards tracking the moving object in the video. Tracking is the method of identifying the position of the moving object in the video. Identifying the position is much more challenging task then detecting the moving object in a video. Object tracking is applied in numerous applications like in robot vision, monitoring the traffic, Video surveillance, Video in-painting and Simulation. Our project mainly focuses on the basis to implement the object detection and tracking in real time using web camera or Stored video using Kernalized Correlation Filter (KCF) algorithm.
22	CSE	Prof. Radhika Shetty D S	4VP15CS069 4VP15CS072 4VP15CS079 4VP15CS092	Electricity theft and cleft detection	Functional	Power theft is a serious concern for public, for utility company and for government. Electricity theft detection is hard to detect using conventional protection methods, so an advanced protection scheme must be developed to manage the issue. An effective protection plan against power theft needs to effectively face the issues of detection and identification simultaneously. In this scheme of electricity theft detection, unapproved tapping on distribution lines are detected. However, present systems are not able to detect unapproved tapping on distribution lines. But in this system, it is able to recognize which distribution line has tapping. An execution area of this power theft detection system is a distribution network. In this work, wireless data communication technique is used. With this wireless technique, it gives a wireless

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						meter reading, which is also useful for electricity theft detection.
23	CSE	Prof. Nithin Kurup	4VP15CS070 4VP15CS078 4VP15CS084 4VP15CS098	IOT based Biometric authentication using edge computing	Functional	Authentication systems are used to verify the identity of a person and provide authorization for access. This project provides a strong authentication mechanism (i.e. by using biometric information) for the required system (ex. Car) of the user. Features from the images are extracted and stored in the edge device, hence bandwidth utilization can be minimized. To register the new user into the system, separate interface has been provided. While registering, a separate folder will be created with the user name. We used camera sensor as a interface to provide strong authentication. User's biometric information is taken using the picamera and the features are extracted using Haar cascade algorithm and stored in edge device. We used cloud to store the final results such as login information, invalid user's image etc.
24	CSE	Prof. Krishna Mohan	4VP15CS074 4VP15CS083 4VP15CS100	Music genre classification using neural networks	Functional	Music is an ever changing or evolving field. We see a lot of songs, instrumentals, symphonies and other music forms releasing every day. All this music is of different genre moods and themes. Music streaming platforms need to classify these songs to improve User Experience (UX). We can use various features (like vocals, instruments) of a song to classify them into different forms. However, identifying these features is a challenging task. In order to identify the features of a song that can appropriately classify them into their respective genre with reduced human interaction, we go for deep learning techniques. The proposed project is based on these techniques. Our project mainly focuses on the basis of implementing music genre recognition using Convolution Neural Network (CNN/ConvNet) model which is trained using labeled Mel Spectrogram obtained from audio

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						dataset
25	CSE	Prof. Sharanya P S	4VP15CS080 4VP15CS088 4VP16CS405 4VP16CS406	Traffic management system	Functional	In this paper, the use of sensor networks in environmental monitoring and vehicle monitoring ,which are important in a smart city. The connectivity provided by WiFi are needed to realize the concept of Internet of Things (IoT). The main cause of environmental pollution in most cities are industries and automobiles emitting different types of poisonous gases. This paper discusses the implementation of a unit which senses the presence of gases and uploads the information to a website. The second part of this work is a vehicle monitoring unit, that can be fixed in vehicles. This system tracks the vehicle and monitors its engine temperature and the presence of poisonous gases. In the case of the vehicle is stolen, it will be tracked and a message is sent to the owner .An Android app is developed so that all the required information is easily available. The paper describes the hardware and software implementation of the prototype system.
26	CSE	Prof. Bhanupriya	4VP15CS087 4VP16CS400 4VP16CS401 4VP16CS403	Smart shopping cart with automatic billing system through RFID and android	Functional	The proposed system makes use of an interactive shopping cart which uses the Radio-Frequency Identification (RFID) technology to identify the products details which is already available in the database. The principle of communication of passive RFID, which transmit the information from the tag to the reader, opens a way to enable conventional RFID for sensing purposes. A design method of the received radio circuit of a RFID reader is introduced with the help of which, the smart shopping cart can automatically detect the various products which are being added in the cart and show the related information on the LCD display. We propose to have facility to browse the available products list onscreen in the display of the user interface. The cart is interacting with the Main

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						Server and it will have the facility to generate the bill for all the products added into the cart. The total bill generated is displayed on the android app of the user.

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