

# Vivekananda College of Engineering & Technology

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## List of Projects: 2016-17

SNo	Dept	Guide	USNs	Title	Status	Abstract (100 words)
1	CSE	Prof. Shaila Patil	4VP09CS017 4VP12CS035 4VP12CS064	SMART PUSHNOTE – An Agent Based Intelligent Push Notification System	Functional	Information push mechanism is a way of pushing the information to the user who would be interested in that. This technique is widely used in web-site advertising (showing the advertisements that a user with a certain profile would be interested in, yahoo! sites for example). This technique can also be applied in other areas wherein a user with a known profile interacts with an information system (such as a website). Based on the profile and on the history of activities of the user, a behavioral profile of that user could be determined and this behavioral profile will help the information push system in determining the content that the particular user would like to view. This project is aimed at developing an agent-based information push mechanism. In this system, an agent program would be monitoring the user's activities (like what he types on a word document, for example) and then propose to get him some help to perform his activity in a better and easier way. This could be something like searching a repository for the documents that would help the user in preparing his current document and then providing him those documents. Instead of the user searching for help on his activity, the agent takes the initiative of offering help to the user and so this comes under the information push systems.
2	CSE	Prof. Sandesh Karath	4VP12CS011 4VP12CS028 4VP12CS082 4VP13CS405	Design and Implementation of an Elastic Key-Value Store over Log-Structured Local Volumes	Functional	HBase is a prominent NoSQL system used widely in the domain of big data storage and analysis. It is structured as two layers: a lower-level distributed file system (HDFS) supporting the higher-level layer responsible for data distribution, indexing, and elasticity. Layered systems have in many occasions proven to suffer from overheads due to the isolation between layers; HBase

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						<p>is increasingly seen as an instance of this. To overcome this problem we designed, implemented, and evaluated HBase-BDB, an alternative to HBase that replaces the HDFS store with a thinner layer of a log-structured B+ tree key value store (Berkeley DB) operating over local volumes. We show that HBase-BDB overcomes HBase's performance bottlenecks (while retaining compatibility with HBase applications)</p>
3	CSE	Prof. Nagaraj	4VP12CS068 4VP12CS075 4VP13CS006 4VP13CS046	Database System	Functional	<p>In single user systems it is not productive to use database systems used in large organizations. The software used also requires one or more additional software installed beforehand. The software is costly since its purpose was to be used in organizations. The idea to the project was to develop software to be used in personal computers which does not require any software to be installed beforehand and make it portable to support multiple operating systems. Our proposed project "Database System" contains three modules mainly, table management module, table handler module, file handler module, graphical user interface module. User interacts with graphical user interface to store and access data. The software also provides other functionalities like insert row, update row, delete row, create table, show table, delete table, manage table, etc.</p>
4	CSE	Prof. Pramod Kumar	4VP13CS001 4VP13CS014 4VP13CS024 4VP13CS037	PayToll - Online Toll Collection System using RFID	Functional	<p>PayToll system is a project which aims how to make effective and accurate toll collection system which is based on RFID. To avoid the crowd from the tollbooth we are developing the system in which toll will be reducing from wallet automatically and nobody will have wait on tollbooth for pay toll. In this system RFID reader is used for reading the unique RFID number of each vehicle. Once the RFID number is read, the toll would be cut from the customer's wallet and then opens the gate. Also the mail would get send to owner of vehicle after each transaction. For the identification of the vehicles, the information of the vehicles is already stored on the central database. The basic advantages of the system is travelling time is decreased, congestion free</p>

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						network, less emissions in toll area and no infrastructure cost is required. This gives a win to win condition for both toll authorities and toll customers.
5	CSE	Prof. Sharath K.R	4VP13CS002 4VP13CS019 4VP13CS020 4VP13CS056	Online Placement Portal System	Functional	Online placement portal is a project which aims in developing a computerized system to maintain all necessary information related to placement. This project can be used by placement department of a college. It reduce the communication gap between students and placement department and make easy the recruitment process of the organization. The purpose is to design a system that provides functionalities to perform the activities related to placement services. The system will allow us to replace or add modules in the future as a way to enhance a particular feature of particular situation. Our project provides the facility of maintaining the details of the students. It reduces the manual work and consumes less paper work to reduce the time. The system can be accessed and effectively used throughout the organization with proper login enabled. Student logging should be able to upload their personal and educational information. Admin will manage the student details as well as company details, create list of students as per company criteria and send notifications to students. The system allows students to access company details, any preparatory material posted by faculty.
6	CSE	Prof. Tapaswini	4VP13CS003 4VP13CS032 4VP13CS037 4VP13CS044	Pollution and Alcohol Consumption Detection in Car Using IoT	Functional	Normally each and every house has an automated vehicles, which usually consumes petrol and with energy, it releases the carbon monoxide. Due to this the entire world is fighting against carbon monoxide releasing from thousands of vehicles every day and another problem is driving the vehicles when he has consumed alcohol. So the proposed system detects the carbon monoxide content in the exhaust of the vehicle using sensor and alerts the user through user application. Similarly if the driver has consumed the alcohol then also user will be alerted and immediately alert will be given to the RTO
7	CSE	Prof. Nischay Kumar	4VP13CS004	Vehicle Parking System	Functional	The main aim of this proposed system is to develop a vehicle

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		Hegde	4VP13CS022 4VP13CS023 4VP13CS045			parking system. This system not only helps in parking of the vehicle but it also helps the the drivers from facing the problem that always occurs at the vehicle park, such as time being wasted in searching for the available parking spaces and keep on circling the parking area until they found an empty parking spot.This problem usually occurs in urban areas, where number of vehicles arehigher as compared to the availability of parking spaces.This is just a step forward to reduce the traffic created on the roadsides due to parking of vehicles. Each and every Public places like offices, shopping malls,Entertainment Plazas have a major problem for finding free space for parking.The major task performed by this proposed system is, helping the user in finding the available free space with the help of sensors.In this proposed system there are two facilities have been developed such as parking lot monitoring and security reservation module. For the parking lot monitoring module, the layout animation is used to display the parking lot status. In security reservation module, the users need to send SMS to reserve the parking lot.
8	CSE	Prof. Roopa G.K	4VP13CS007 4VP13CS008 4VP13CS009 4VP13CS010	A Health Monitoring System	Functional	In today'sworld ifsomeone wants to book a Doctor's Appointment we need to call in clinic or personally go to that place and book the appointment. This consumes precious time of the patient. Also if the doctor cancels his/her schedule, the patient does not come to know about it unless he/she goes to the clinic. The objective of this project is to build a system that will ease the process of booking appointment of the doctor. The patient will book the appointment through his/her mobile phone. The doctor will come to know the number of patients he has to attend whole day. The system will save patient's as well as doctor's time

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						<p>. It will save the receptionist's paper work. The system will prove to be useful for doctor as he can check his appointments whenever and from wherever he wants from his mobile phone.</p>
9	CSE	Prof.Radhika Shetty D S	4VP13CS011 4VP13CS016 4VP13CS041 4VP13CS042	Implementation of cloud storage security mechanism using digital signature	Functional	<p>This paper focuses on providing data integrity and security for files stored in cloud. User need to create an account in this application. He can use this application by giving username and password in login phase. After the successful login, he can upload files. He can choose the file from his drive. While uploading RSA algorithm is used to encrypt the file. The user can check the integrity of data at any time. MD5 algorithm is used to check data integrity. The system also provides mechanisms to share the files and edit the files stored in the cloud. Public audit ability allows TPA to verify the correctness of the cloud data on demand without retrieving a copy of the whole data or introducing additional online burden to the cloud users. Storage correctness to ensure that there is no cheating cloud server that can pass the TPA's audit without indeed storing user data intact. Privacy preserving to ensure that the TPA cannot derive users data content from the information collected during the auditing process</p>
10	CSE	Prof. Harivinod N	4VP13CS012 4VP13CS025 4VP13CS051 4VP13CS057	Cocoa Care - Image Based Cocoa Disease Identification using Android	Functional	<p>India is an agricultural country; wherein about 70% of the population depends on agricultural. The correct and timely identification of diseases in crops is the basis for integrated management of a farm. To obtain more valuable products, a product quality control is basically mandatory. Cocoa is an economically important crop that nowadays enlarges its production in southern India. To assist the farmers growing cocoa, we developed an android application "Cocoa-Care". This application automatically identifies the diseases of</p>

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						<p>cocoa crops, thereby helps the farmers who have little or no information about the disease. This application will be developed by applying digital image processing techniques on the diseased cocoa images. Our approach replaces the manual disease inspection by the android application that identifies the cocoa disease from the captured image and suggests the possible remedies for the farmer. We used moment based texture features for the image representation and description. The matching is performed by nearest neighbor classifier. The results obtained are promising and this application can be used in the real time.</p>
11	CSE	Prof.Santhosh M	<p>4VP13CS015 4VP13CS033 4VP13CS050 4VP13CS055</p>	<p>Face and facial expression recognition using Euclidean distance classifier</p>	Functional	<p>Human -computer interaction will be much more effective if a computer know the emotional state of human. Facial expression contains much information about emotion. So if we can recognize facial expressions, we will know something about the emotion. However, it is difficult to categorize facial expressions from images. Each number represents a facial expression (smile, angry, fear, disgust, sadness, surprise). The number is 1 if that facial expression is present and 0 otherwise. Face and Facial recognition problem had attracted many researchers. Development of such systems are very challenging, due to variations in illumination conditions, poses, facial expression, aging, and disguises such as mustaches, beard, glasses or cosmetics. Facial expressions are a primary means of conveying nonverbal information among humans, though many animal species display facial expressions too. Although human developed a very wide range and powerful of verbal languages, facial expression role in interactions remains essential, and sometimes even critical</p>

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12	CSE	Prof. Raghavendra T.K	4VP13CS017 4VP13CS021 4VP13CS026 4VP13CS043	Online Intrusion Alert Aggregation with GDSM	Functional	Alert aggregation is an important subtask of intrusion detection. The goal is to identify and to cluster different alerts—produced by low-level intrusion detectionsystems, firewalls, etc.—belonging to a specific attack instance which has beeninitiated by an attacker at a certain point in time. Thus, meta-alerts can be generated for theclusters that contain all the relevantinformation whereas the amount of data (i.e., alerts)can be reduced substantially. Meta-alerts may then be the basis for reporting tosecurity experts or for communication within a distributed intrusion detection system. We proposea novel technique for online alertaggregation which is based on a dynamic, probabilisticmodel of the current attack situation. Basically, it can be regarded as a datastreamversion of a maximum likelihood approach for the estimation of the model parameters. With three benchmark data sets, wedemonstrate that it is possible to achieve reduction rates of up to 99.96 percent while the number of missing meta-alerts is extremely low. In addition, meta-alerts are generated with a delay of typically only a few seconds after observingthe first alert belonging to a newattack instance
13	CSE	Prof. Sharanya	4VP13CS018 4AP13CS028 4VP13CS029 4VP13CS049	TOD Food System- AnAndroid Application	Functional	TOD Food SYSTEM is an Android application designed primarily for use in the food delivery industry and to avoid the wastage of food by helping the users to donate food to the society. This system provides better platform for the hotels and restaurants to increase scope of business by providing a large range of customers. The system also allows the users to explore various restaurants, to quickly and easily manage an online menu which users can browse and use to place orders or reserve table with just few clicks. Restaurant employees can easily confirm the orders placed by the users,

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						<p>even tables reserved by them through a webpage provided to the restaurant for efficient processing. In definition, TOD is an integrated system, developed to assist customers to donate food, for table reservation services and ordering food by enabling customers to immediately make orders on their own selves. This will minimize the number of minutes to wait.</p>
14	CSE	Prof.Radhika Shetty D S	4VP13CS027 4VP13CS035 4VP13CS047 4VP13CS058	An IOT Based smart Energy meter	Functional	<p>An IoT based Smart Energy Meter (SEM) is the extension of digital energy meter using the concept of Internet of Things (IoT). Smart Energy Meter (SEM) includes a controller integrated with digital energy meter which assists in bill generation, online bill payment and monitoring the devices using Bluetooth. Generation of bill at consumer premises can be done without human intervention. IOT based SEM framework is more viable methodology than tradition of billing framework. User can take control of his devices by using Bluetooth. User can pay the bill through Online. To access the facilities of SEM, users require android application.</p>
15	CSE	Prof. Mahesh Prasanna	4VP13CS030 4VP13CS031 4VP13CS036 4VP13CS052	Notify Me - An App to Track the School Bus	Functional	<p>Notify Me-An App to Track the School Bus is an android application which makes use of GPS to track the schoolbus and notify the parents about the arrival of school bus in prior.The parent, driver and the teacher must register himself with theadmin. The admin provides a unique ID for them in order to accessthe app. During the registration process of the student a uniqueautomated QR code is generated and assigned to each student,which will be stored in the database. Whenever the student boardsthe school bus the respective QR code will be scanned by the drivenapplication and the student's arrival to the bus will be confirmedand notified to the parent. The parent will be notified about thearrival of the school bus. The teacher and the admin can also trackthe bus. The driver is initially assigned one among multiple routes.He can also use the app to view the route</p>

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						and the next boardingpoint of the students
16	CSE	Prof. Roopa G.K	4VP13CS005 4VP13CS013 4VP13CS039 4VP13CS048	Dreamland Application	Functional	The project entitled 'Dreamland Application' is an innovative system aiming at developing the real estate base across the state. As on today the real estate operations takes place only in and around major cities. This application envisages to extend the scope of real estate business to other smaller towns. This will evince interest in investors to focus on other potential areas of operation with the more number of people trying to enter the field resulting in better growth of the business. Seller has the facility to advertise his/her location and features of the property. The application will also touch upon the extended area of real estate operation such as sale, rental, lease and paying guest accommodation. This is user friendly and can be operated by common public. The application developed will solve many drawbacks of the real estate business
17	CSE	Prof. Harivinod N	4VP13CS054 4VP13CS066 4VP13CS082 4VP13CS097	Mobile Guide For Plant Leaf Identification	Functional	In this project, we propose to develop an automatic plant leaf identification system. The system is intended to identify the plant or leaf based on given leaf image and provide useful information about the recognized plant or leaf. The system will be developed by applying digital image processing techniques on the shape features of the leaf. The system uses image segmentation technique to extract the leaf from the image, various feature extraction techniques to represent the leaf and matching based on nearest neighbor classifier.
18	CSE	Prof. Ramakrishna B	4VP13CS060 4VP13CS069 4VP13CS070 4VP13CS078	Face detection and recognition in live video stream using modified viola jones algorithm	Functional	In this paper we developed a computer system that can locate a human face in a complex background and then recognize the person by comparing characteristics of the face to those of known individuals. The Computational approach taken in this system is motivated by Color and Motion Information and PCA (Principal Component Analysis). Our approach treats the face recognition problem as a two-dimensional (2-

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					<p>0) problem rather than three-dimensional geometry. The system functions by two steps, first, extracting face image in a complex background using difference image and color model, and second, projecting pre-extracted face images onto a feature space that represents the significant variations among known face images.</p>	
19	CSE	Prof. Bharathi K	4VP13CS062 4VP13CS074 4VP13CS081 4VP13CS084	Personal Assistance Using Artificial Intelligence for Computers	Functional	<p>Machine makes life easier so men always keen to develop new machine and software which makes life easier. Since the invention of computers or machines, their capability to perform various tasks went on growing exponentially. Humans have developed the power of computer systems in terms of their diverse working domains, their increasing speed, and reducing size with respect to time. So the objective of the proposed work is to control the computer in easier way that is through the voice commands. The system is based on one of the major application of artificial intelligence “Speech Recognition”. This software “Personal assistance for computer using artificial intelligence” can be used as personal assistance to user working in personal computer. Software with cognitive abilities similar to those of the human brain so that it can understand human language thinks, infer, reason and learn. It uses the android application to take the input from user and the command given by the user will be sent through the Bluetooth for the MATLAB interface in computer. The command is processed and the action for specific command is executed. So in simple way through voice command we can do the work in PC.</p>
20	CSE	Prof. Ramakrishna B	4VP13CS063 4VP13CS065 4VP13CS077 4VP13CS079	Elephant Intrusion Detection System	Functional	<p>Animal detection plays an important role in our day to day life. In the agricultural areas placed near the forest many animals such as elephant destroy the crops and even attack on people, therefore there is a need for a system which</p>

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						<p>detects the presence of the animals such as elephant and gives the warning about that in the view of safety people. Our proposed system detects movement in a saved video taken from a static camera. The detection of moving objects uses a background subtraction algorithm based on Gaussian mixture models. Morphological operations are applied to the resulting foreground mask to eliminate noise. Finally, blob analysis detects groups of connected pixels, which are likely to correspond to moving objects. Appropriate thresholds are used to eliminate false detections of irrelevant movements likely to be present in video. Once the appropriate amount movement is detected in the video, the corresponding frame from the video is captured and sent to the recognition module. In recognition, a pre trained CNN classifier, VGG-f model is used which was trained with huge number images from image-net. If the identified object is elephant then a notification is sent. Tracking is also performed using Kalman filter.</p>
21	CSE	Prof. Nithin Kurup G	4VP13CS068 4VP13CS071 4VP13CS072 4VP13CS075	Easy Access to Doctors	Functional	<p>Booking an online appointment has become popular nowadays. This paper presents web application on online appointment booking system where patient can access and view doctor schedule in order to book an appointment with available time. The system was developed using Asp.net and SLQ Server. This facilitates the patients to a easy way to access the doctors.</p>
22	CSE	Prof. Nischay Kumar Hegde	4VP13CS073 4VP13CS076 4VP13CS080 4VP13CS085	Smart Fishing	Functional	<p>For centuries, our seas and oceans have been considered a limitless bounty of food. But unsustainable fishing over the last 50 years, driven by poor fisheries management and control measures, are putting increasing pressure on important commercial fish stocks and their marine habitats. The global seafood market is expected to grow another 50 million tons by 2025, urging fishermen, processors,</p>

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						<p>suppliers, buyers and retailers to meet this demand. Our proposed system supports sustainable fishing and good governance in geographic places. A study says that fishes emit sound waves through their gills and this varies from fish to fish. We have used sound detection sensors to read the sound in order to detect and identify the fishes. A centralized administrator will be monitoring the overall process. He will intimate the fishermen as and when required.</p>
23	CSE	Prof. Savitha M	<p>4VP13CS083 4VP13CS093 4VP13CS094 4VP13CS096</p>	<p>An Efficient File Sharing Using AES Algorithm in Cloud Computing</p>	Functional	<p>With the tremendous growth of sensitive information on cloud, cloud security is getting more important than ever before. The growth of the cloud users has unfortunately been accompanied with a growth in malicious activity in the cloud. The future of cloud, especially in expanding the range of applications, involves a much deeper degree of privacy, and authentication. This application proposes a simple data protection model where data is encrypted using Advanced Encryption Standard (AES) before it is launched in the cloud, thus ensuring data confidentiality and security. AES has been a preferred encryption technology to solve the challenging problem of secure file sharing in cloud computing. There exist different schemes that provide security, data confidentiality and access control. One of the encryption schemes is AES. It is a symmetric encryption algorithm which encrypts the block of data in the file and supports the larger key size. Symmetric ciphers use the same key for encrypting and decrypting, so the sender and the receiver must both know and use the same secret key. It also helps the file to be more secure in cloud. It performs consistently well in both hardware and software platforms under a wide range of environments.</p>
24	CSE	Prof. Bharathi K	4VP13CS086	Intrusion Detection In Cloud	Functional	<p>Cloud computing has recently emerged as a technology to allow</p>

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25	CSE	Prof. K.K. Ragavendra	4VP13CS087 4VP13CS090 4VP14CS400	Developing a Human-Centric Agricultural Model in the IoT Environment	Functional	The prevalent state of agriculture, especially in developing countries, is not efficient and organized enough to address the growing demand for food, a direct result of the increasing human population. Internet of things and cloud computing together have provided a promising opportunity to resolve the challenges posed by this increasing demand worldwide. By employing IoT and cloud services, and through precision farming tactics, the efficiency and quality of agricultural production, storage and transportation can be tremendously improved. In this paper, we present the architecture of a multilayered enabling platform for incorporating IoT technologies in the agricultural sector. This work makes important contributions by proposing a feasible human-centric IoT model for agriculture with special emphasis on developing nations.
26	CSE	Prof. Rakshitha	4VP13CS088 4VP13CS098 4VP13CS403 4VP14CS401	Car Pooling and Taxi Ride Sharing Application	Functional	We proposed and developed a taxi-sharing system that accepts taxi passengers' real-time ride requests sent from Smartphone and schedules proper taxis to pick up them via ridesharing, subject to time, capacity, and monetary

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						<p>constraints. The monetary constraints provide incentives for both passengers and taxi drivers: passengers will not pay more compared with no ridesharing and get compensated if their travel time is lengthened due to ridesharing; taxi drivers will make money for all the detour distance due to ridesharing. While such a system is of significant social and environmental benefit, e.g., saving energy consumption and satisfying people's commute, real-time taxi-sharing has not been well studied yet. To this end, we devise a mobile-cloud architecture based taxi-sharing system. Taxi passengers and taxi drivers use the taxi-sharing service provided by the system via a Smartphone App. The server first finds candidate taxis quickly for a taxi ride request. A scheduling process is then performed in the server to select a taxi that satisfies the request with minimum increase in travel distance. Tested on this platform with extensive experiments, our proposed system demonstrated its efficiency, effectiveness and scalability</p>
27	CSE	Prof. Mahesh Prasanna	4VP12CS041 4VP13CS053 4VP13CS059 4VP13CS064	Agro App	Functional	<p>The aim of is the system to develop an Application, to help in the field of agriculture. The main objective of this android app is to avoid the brokerage system by providing direct marketing facility either to sell or to buy crops like horticulture crops and commercial crops. Here the main focus is on waste management of crops and its solutions. The project consisting three main modules producer module, admin module and consumer module. Admin take care of all the crop details, charges and transport. And he will update the crops information once it is sold out, and he also has details about producer. Producer need to log in to the system and need to update his crops details. Consumer need to login to the system in order to see the crops details. Once</p>

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					he logged in he can buy a crops, he can check the price of the particular crops and he can make payment through credit card. And also we are providing with online delivery option for consumer.
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