



# TECH ERA

## STUDENTS TECHNICAL MAGAZINE



DEPARTMENT OF IT (LBRCE)

VOLUME VI  
[2020-21] ISSUE-II

# VISION AND MISSION OF THE DEPARTMENT

## DEPARTAMANET VISION

To emerge as one of the most preferred department for the budding engineers, aspiring to be successful IT professionals

## DEPARTAMANET MISSION

**DM 1:** To impart quality education with a well designed curriculum, consistent with industry requirements, that equips the student to face the career challenges.

**DM 2:** To extend the student's learning beyond the curriculum, through workshops on cutting edge technologies.

**DM 3:** To strengthen creativity and team spirit of the students by providing a conducive environment, preparing them to face the challenges posed by the IT industry

**DM 4:** To develop life-long learning, ethics, moral values and spirit of service so as to contribute to society through technology.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates of Information Technology programme will be:

PEO 1: Pursue a successful career in the area of Information Technology or its allied fields.

PEO 2: Exhibit sound knowledge in the fundamentals of Information Technology and apply practical Experience with programming techniques to solve real world problems.

PEO 3: Demonstrate self-learning, life-long learning and work in teams on multidisciplinary projects.

PEO 4: Understand the professional code of ethics and demonstrate ethical behaviour, effective Communication and team work and leadership skills in their job

## PROGRAM OUTCOMES (POs):

Graduates of Information Technology programme will have the ability to:

**1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**2. Problem analysis:** identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings

**10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in dependent and life-long learning in the broadest context of technological change.

#### PROGRAM SPECIFIC OUTCOMES (PSOs):

Graduate of the Information Technology will have the ability to

1. Organize, Analyze and Interpret the data to extract meaningful conclusions.
2. Design, Implement and evaluate a computer-based system to meet desired needs.
3. Develop IT application services with the help of different current engineering tools.

## **About the Department**

The department of Information Technology was established in the year 1999 with an intake of 40 seats in UG program. Student intake is increased from 40 to 60 in the year of 2001. It is the one of the most emerging programme in LBRCE. As IT plays a remarkable role in the almost all sectors, due to this the need of Information Technology Engineers increased who could gain knowledge in recent technologies. Our department is intended to train the students in elementary courses and cutting-edge technologies like Digital marketing, Social networking, Digital communication, Cloud computing, android application, and Big data for solving many social and business problems. Our future Software Engineers, Entrepreneurs, and Researchers are encouraged with inventive approach. We have an excellent infrastructure and advanced labs to expedite our students. The Department facilitates innovative practices such as student internships, mini and major projects to meet the requirements of employment, teaching-learning process and entrepreneurship. To upgrade the knowledge of students, department offers many tools and Software applications. The LBRCE-CSI students' chapter has been actively organizing events like Technical Seminars, Workshops and Guest lecturers. The Department has well qualified and experienced faculty. The department has 16 teaching faculty with 4 Doctorates and the rest with (M.Tech. Four faculties are pursuing Ph.D in various Universities.)

The faculties are engaged in research activities (including funded projects) in their areas of specialization to subsidize the knowledge transfer in their corresponding arenas. Numerous research papers have been published in National, International Journals and Conferences by our faculty and students.

# Articles Published In Reputed Journals & Conference by the Faculty of Information Technology

## **An enhanced mathematical modeling approach for anomaly-based Intrusion detection.**

*R. Ganeshan , M. Vijay Anand , V.V. Krishna Reddy , B. Santhosh Kumar*

2021 Elsevier Ltd. the Emerging Trends in Materials Science, Technology and Engineering. 214-7853/\_ 2021 Elsevier Ltd.

Nowadays, the computers are being used everywhere in the whole world. Since all the business transactions are depended on the computers, there occur various malicious attacks that can access the network by intruding the end user. To prevent these attacks, the computer system use cyber-security system, which is intended to protect the theft in various disciplines, such as organization, hospitals, and government? Here, all the entities must be connected through the server in the network system. Hence, it is very important to notice the attacks caused by the known and unknown intruders. These types of intruders can easily encrypt the significant information from the database that was safe-kept. Therefore, this paper provides an overview about the Intrusion Detection Systems (IDSs) for detecting anomalies by reviewing various anomaly-based IDSs that provide high-level protection system.

- Mr.V.V. Krishna Reddy

## **An Additive Sparse Logistic Regularization Method for Cancer Classification in Microarray Data**

*Vijay Suresh Gollamandala and Lavanya Kampa*

The International Arab Journal of Information Technology, Vol. 18, No. 2, March 2021

Now a day's cancer has become a deathly disease due to the abnormal growth of the cell. Many researchers are working in this area for the early prediction of cancer. For the proper classification of cancer data, demands for the identification of proper set of genes by analyzing the genomic data. Most of the researchers used microarrays to identify the cancerous genomes. However, such kind of data is high dimensional where number of genes are more compared to samples. Also the data consists of many irrelevant features and noisy data. The classification technique deal with such kind of data influences the performance of algorithm. A popular classification algorithm (i.e., Logistic Regression) is considered in this work for gene classification. Regularization techniques like Lasso with L1 penalty, Ridge with L2 penalty, and hybrid Lasso with L1/2+2 penalty used to minimize irrelevant features and avoid overfitting. However, these methods are of sparse parametric and limits to linear data. Also methods have not produced promising performance when applied to high dimensional genome data. For solving these problems, this paper presents an Additive Sparse Logistic Regression with Additive Regularization (ASLR) method to discriminate linear and non-linear variables in gene classification. The results depicted that the proposed method proved to be the best-regularized method for classifying microarray data compared to standard methods.

-Dr.Lavanya Kampa

## **IoT Based Vehicle (Car) Theft Detection**

*Rajasekhar Kommaraju, Rangachary Kommanduri, S. Rama Lingeswararao, Boyapati Sravanthi, and Cherukumalli Srivalli*

Springer Nature Switzerland AG 2021 J. I.-Z. Chen et al. (Eds.): ICIPCN 2020, AISC 1200, pp. 620–628, 2021

It is a foregone conclusion that property crimes will hit ten million. Among such, within the steal list, the vehicle is flat-top and sometimes controls entire components of the earth. There have been some recent technical advances and new strategies are being developed to overcome this downside. The ways involved in the detection of vehicle theft are noted for interference by some or everything, as well as shields. This research helps to prevent the vehicle stealing from third parties with the help of RFID card and authorized key. Here, RFID reader connected to the car and if anyone enter into car and they requires the card authorization. Keypads were connected to the engine and the authorized person can only enter into the car by pressing passwords. If the password is incorrect, buzzer will produce noise continuously. The proposed system give the regular updates to the car owners regarding the location of car by using GPS technology.

-Mr.Rajasekhar Kommaraju

# **Mini projects submitted by (IV Year) batch students as partial fulfilment of Under Graduation B.Tech Degree**

## **College Enquiry Chatbot**

Sk.Aisha (18761A1252), Ch.Ravi Teja (19765A1202).

The College Enquiry chat bot project is built using artificial algorithms that analyses user's queries and understand user's message. This System is a web application which provides answer to the query of the student Students just have to query through the bot which is used for chatting Students can chat using any format there is no specific format the user has to follow. The User can query any college related activities through the system. The user does not have to personally go to the college for enquiry. The system answers to the query. if it is answered by the person. The System uses built in artificial intelligence to answer the query. The program responds to the students' question with the assistance of algorithms. The system will have a web board which may read any text notices or PDF documents through the links, this can facilitate the user get the relevant notifications modified. The user will not waste a lot of time searching for the acceptable notices.

Dr.S.Naganjaneyulu

## **A Precision Temperature Monitoring UsingArduino**

Mr.M.Venkatesh(18761A1234), Ms.T.N.K.Amulya(18761A1254).

Internet of Things (IoT) is rapidly increasing technology. IOT is the network of physical objects or things embedded with electronic software, sensors, and network connectivity which enables these objects to collect and exchange data. IOT then deals with bringing control of physical devices over the internet. In this project, we are developing a system which will automatically monitor the industrial applications and generate Alerts or make intelligent decisions. using the concept of IoT. A number of sensors are deployed in our project to monitor industrial parameters like temperature, smoke, gas, etc. These parameters were carefully selected on the basis of the potential hazards they can cause to the normal working of the industry machine. The sensors used in our project are Temperature sensor DHT11, Gas sensor MQ2, MQ 135, Arduino. UNO, LCD display,power supply(5v). These sensors will collect their respective data and then send the same data to NodeMCU ESP8266 which also acts as a wifi module.

Mr.K.Phaneendra

# **Gas Leak Detection Using Arduino With Sound Alarm And Sms**

E.Chandana Sravya (18761A1218), J.Sathvika (18761A1224)

LPG leakages are a mutual hindrance in household and manufacturing nowadays. It is very life threatening if you will not distinguish and modify it right away. The idea behind our project is to detect if there's any gas leakage if there, the sound alarm will be activated and also in addition to this, the authorized person will receive a message or SMS telling that there's a leakage.

**MrK..Rajasekhar**

## **Aptitude-Android-App**

Y.Taruni (18761A1259),K.Uday Naveen (18761A1232)

The students appearing for placements and various other exams like GRE, GMAT, and GATE prepare by coaching classes or by self-study and they are appearing for mock tests and search for the study material from different website. And for this they require internet connection, which is not possible to access by everyone at any place.

Today, the smart phones are able to replace desktop PC's and laptops up to great extents. There are offline android applications available for aptitude tests but there exists none that provides the test for all sections with random set off questions, timer for each test, tutorials, score calculation and maintaining statistics in one single application. This provides a different feature from the existing aptitude applications available in Android play stores along with the idea of developing an application that overcomes the problems of the existing applications which are available from which some have very easy pattern of the have different question or some terminate category of the questions but even these levels value can not exactly determine the level of the users. We are providing an application which automatically judges the level of the user when the user uses it. We are providing a learning application. Learning application also have tutorials to refer to if the user faces problems directly entering the practice session. Admin application will be used to upload questions and maintain user's database (uploading new questions etc.). Technology used will be android tools (JVM, android studio), for coding the application, PHP language will be used at the server end for uploading the questions via excel sheets. The main aim of our Application is that "we don't give all, but we give what user need". This way the user will not waste time doing questions of the same level over and over.

**Dr.B. Rama Devi**



## **Plant Disease Detection Using Matlab**

B.Bhavana(18761A1203), S.Srilekha(18761A1249).

For increasing growth and productivity of crop field, farmers need automatic monitoring of disease of plants instead of manual. The detection of plant diseases are the crucial factors in plant production and the reduction of losses in crop yield. Manual monitoring of disease do not give satisfactory result as naked eye observation is old method requires more time for disease recognition also need expert hence it is non effective. To overcome disadvantages of traditional eye observing technique, we used digital image processing technique for fast and accurate disease detection of plant. Due to optical nature of plant monitoring task, computer visualization methods are adopted in plant disease recognition. The aim is to detect the symptoms of the disease occurred in leaves in an accurate way. Once the captured image is preprocessed, the various properties of the plant leaf such as intensity, color and size are extracted. In our proposed work, we developed k-means clustering algorithm with multi SVM algorithm in MATLAB software for disease identification.

A.V.Nagarjuna Reddy

## **Driver Drowsiness Detection and Safety Alert System Using Python**

K.Yamini (18761A1228), T.Naga Vivek (18761A1255).

A countless number of people drive on highway day and night. Taxidriviers, busdrivers, truck drivers and people traveling long-distance suffer from lack of sleep. Feeling sleepy is dangerous while driving. The majority of accidents happen due to the drowsiness of the driver. According to CRRI, 40% of accidents due to driver dozing off. To avoid this problem, we came up with an idea. The project is about alerting driver when he/she feels drowsy by ringing an alarm. Using Python libraries like OpenCV, Keras and computer vision technique (CNN) system is built to detect whether the driver is drowsy or not. An alarm will be rung if it is detected that the driver feeling drowsy.

- V.V.Krishna Reddy

## **Face Recognition Using Viola Jones Algorithm**

Ms.P.CHANDANA(18761A1211), Mr.B.THARUN(18761A1204).

Face recognition is difficult because although commonalities exist between faces, they can vary considerably in terms of age, skin color and facial expression. The problem is further complicated by differing lighting conditions, image qualities and geometries, as well as the possibility of partial occlusion and disguise. An ideal face detector would therefore be able to detect the presence of any face under any set of lighting conditions, upon any background. Face recognition is the task of identifying an already detected object as a known or unknown face. Often the problem of face recognition is confused with the problem of face detection. Face Recognition on the other hand is to decide if the "face" is someone known, or unknown, using for this purpose a database of faces in order to validate this input face.

-Dr.B.Srinivasarao

## **Home Automation Using Google Assistant**

MR.K.Akhil (18761A1231),MR.K.Madhu (18761A1235).

Comfort is becoming a major priority in the 21st century. So the revolutions of computing and smart environment came into existence. Internet of things (IOT) is an ideal buzzing technology to influence the internet and communication technologies. IOT allows people and things to be connected anytime, anyplace, with anything and anyone. In this mini project we are controlling the appliances using Google assistant. The main component is NodeMCU, which has inbuilt Wi-Fi module, which will help in controlling the devices over the internet. The system is implemented using ordinary household appliances. Natural language voice commands are given to Google assistant and with the help of IFTTT application the commands are decoded and then sent to micro controller i.e. NodeMCU, the micro controller in turn controls the relay connected to it as required, turning the device connected to the respective relay ON or OFF as per the user request to the Google Assistant. The communication between NodeMCU and the application is established via Wi-Fi.

-Mrs. A. Sarvani

## **Online Grocery Web Application**

B.Vamsi Krishna Reddy(18761A1207),V.Mounika (19765A1206).

:Online grocery web application, also known as e-commerce is a type of industry where buying and selling of a product is conducted over electronic systems such as the internet. The purpose of this application is to bring knowledge to students about e-commerce and how an interactive e-commerce application can be designed from scratch using client-side languages, such as PYTHON and DJANGO FRAMEWORK, combined with the SQL server-side. The server side, mostly Django, contains all the implementation related to setting up the database, creating session models for joining different user-interface (UI) pages, calculating the shipping costs and sales tax, etc. It is responsible for taking information from the database and making it available to the UI by mapping the category or item ID to the respective IDs stored in the database. The client side is responsible for showing the entire user interface, containing the Python, Django Sublime text editor.

-Mr.G.Rajendra.

# **Trend Analysis Of University Placements Using Supervised Machine Learning Algorithms**

G.Asritha(18761A1219),J.Kavya (18761A1223).

:The main goal of all educational institutions is to provide students with employment opportunities in accordance with their core subjects. Reputation and annual admissions of an organization always hang on the placements it delivers to a student. This is one of the major factors that all the institutions heavily strive to strengthen their placement cell which have a prominent role in development of the institution. It is highly advantageous if there is any assistance for this section to place its students. The principle aim is to use the previous and present academic data records of students which could lead to the prediction of the individual's placement selection. Data required is collected from the institution on which algorithms are applied. Initial stage is to pre-process the data that has been gathered, which is followed by application of classification algorithms such as Decision Tree, Random Forest and Logistic Regression. Results obtained can vary with each algorithm and this comparison is done among accuracy, precision and recall values which will help to recognize the best between three algorithms.

-S.Nagamani

## **Smart Attendance System**

Ms.P.Swathi Lakshmi(18761A1242),Mr.K.Jagadeesh(19765A1204)

:Uniqueness or individuality of an individual is his face. In this project face of an individual is used for the purpose of attendance making automatically. Attendance of the student is very important for every college, universities and school. Conventional methodology for taking attendance is by calling the name or roll number of the student and the attendance is recorded. Time consumption for this purpose is an important point of concern. Assume that the duration for one subject is around 60 minutes or 1 hour & to record attendance takes 5 to 10 minutes. For every tutor this is consumption of time. To stay away from these losses, an automatic process is used in this project which is based on image processing. In this project face detection and face recognition is used. Face detection is used to locate the position of face region and face recognition is used for marking the understudy's attendance. The database of all the students in the class is stored and when the face of the individual student matches with one of the faces stored in the database then the attendance is recorded. Attendance is prime important for both the teacher and student of an educational organization.

-Mr.K.Phaneendra

# **Fake News Detection Using Machine Learning Techniques**

Ch.Lavanya (18761A1213),K.Venu Gopal (19765A1203).

The easy access and exponential growth of the information available on social media networks has made it intricate to distinguish between false and true information. The easy dissemination of information by way of sharing has added to exponential growth of its falsification. The credibility of social media networks is also at stake where the spreading of fake information is prevalent. Thus, it has become a research challenge to automatically check the information along with its source, content and publisher for categorizing it as false or true. Machine learning has played a vital role in classification of the information although with some limitations. In this project we will apply various Machine learning classification algorithms like Naive Bayes, Logistic Regression, Decision Tree Classifier and Support Vector Machine (SVM) classifier for the detection of fake and Real news. All these algorithm performances are measured and compared to select the best algorithm for fakenews detection.

- Dr.K.Anupriya

## **Text To Speech Conversion Using Python**

Ms.Kota Mounika(18761A1229),Ms.Dodda Lakshmi Sowmya(18761A1217).

: This is a system which is used for converting the input string of text into the corresponding speech using python. The fastest and effective way of communication is language. Limited and proper combination of words with grammar rules gives a clear picture of the ideas or thoughts that speaker wants to convey.

The system includes Python coding which is done for the generation of speech signal based on the user defined input text. A simple File Accessing Protocol (FAP) is adapted to achieve the task of retrieving the audio files on the database.

-Mrs. M.Hemalatha

## **Music Player Using Python**

A.N.Chandana(18761A1201) , Ch.Harika(18761A1212)

In our daily life, we see every person has a hobby and that is listening to music. So in order to listen to music, they all need a Music player (hardware or software) where they can play their favourite songs. And we have to install this music player on our computer, based the Operating system Le Windows, Macintosh, Android, Linux, etc. Then we can listen to our favourite songs. In this project, you have functionality such as music play, pause, resume, stop the song. To create this music player we will do the coding in python programming. It is done in PYCHARM software. Python is a high-level programming language Open source and community driven "Batteries Included" a standard distribution includes many modules Dynamic typed Source can be compiled or run just-in-time Similar to perl, tel, ruby. Python is an object oriented language critically everything can be treated as an object. Python was designed for readability, and has some similarities to the English language with influence from mathematics.

Python uses new lines to complete a command, as opposed to other programming languages which often use semicolons or parentheses. Python relies on indentation, using whitespace, to define scope; such as the scope of loops, functions and classes. Other programming languages often use curly-brackets for this purpose. Python is an interpreted programming language, this means that as a developer you write Python (.py) files in a text editor and then put those files into the python interpreter to be executed.

-Ms.Nagamani.

# Smart Restaurants

Mr.B.Jitendra KUMAR (18761A1209),Mrs.G.Manisha (18761A1222)

**ion** :In most of the restaurants meal ordering is relying on the interaction with waiters to place order into the kitchen. In busy hours of restaurant this coordination is a challenge result in unsatisfaction to the customer. To realize this, Smart Restaurant System is designed. The system covers the whole order process of a restaurant includes the interaction between customer, the waiter, the kitchen and the cashier through android or web application and desktop based software. The system will also include a database maintaining the record of employees and the food ordering details of the customers at the particular table, Digital Smart Menu could be replacement to paper-based menu. We conducted an concerning perception of paper-based menus and their expectation to digital menus. The digital menu will provide interactive user interface with which user will easily place his order by itself.

-Mr.K.Michael Sadgun Rao Kona

# **Project Based Learning**

## **Blood Bank Management System**

S. LAVANYA (19761A1250),N. SAI PRIYA (19761A1247),K. HARISH REDDY (19761A1221),D. ABHISEK (19761A1211),L. HARSHADHA (18761A1233)

Blood Bank Management System is a high-end system to bridge the gap between the blood donors and the people in need for blood. Website for Blood Bank Management System is a way to synchronize Blood banks and Hospitals with the help of Internet. It is a Website through which Registered Hospitals can check the availability of required Blood and can send Request for blood to the nearest blood bank or donor matching with blood requirement and can be ordered online as and when required. Blood bank can also send a request to another blood bank for unavailable blood. Person willing to donate blood can find out nearest blood banks using Blood Bank Management website. The location of the blood bank can also be traced using maps. The website can be accessed only by the donors to search the blood donation centers and the requesting blood banks and hospitals to search the nearest blood banks and donors. The main goal of the Blood Bank Management System project is to monitor Blood Bank data, Blood stock, Donor List. It manages all the Blood Bank, Donor, Blood stock data. The project is entirely administrative and therefore access is guaranteed only to the administrator. The donors wish to donate the blood first they has to register in the database. The requirement of the blood has to be requested and we supply the information of the donor. The donors can update their status whether they are available or not.

Dr.B.Srinivasa Rao  
(HOD of IT)

## **Online jewellery mart**

**Presented by :**S. SWATHI (19761A1248),CH. ARUN RAVIKANTH (19761A1210),  
K. PREMALATHA (19761A1218),P. SAI SANTOSHREDDY (19761A1245),CH. VAMSI  
KRISHNA (20765A1201)

Previously we used to buy anything by going to a particular shop, but nowadays with the development of technology we are preferring online shopping. In online shopping we have so many advantages like massive choice, information and time saving. Purchasing of jewellery in online makes the life of a busy person easy. By considering all these points we have planned to design a website for jewellery purchasing. Online jewellery mart is basically used to build an application program which help people to find and buy latest design of jewellery with different categories like Gold, Silver, Diamond. It is useful in the way that it makes an easier way to buy products online. Our system allows a user to search for a particular item and order that item if they wish to buy that one by comparing the cost with the cost in other websites. As the information related to the making charges, purity of metal and cost per gram are present at the image itself it will be easy for comparison. The admin will keep record of all the information related to the jewellery and will update the data whenever necessary. The user can login and go for the online shopping.

Dr. S. Naganjaneyulu  
Professor

## **College Canteen Automation System**

A.BHAVANA(19761A1202) DR.B.RAMA DEVI (ASSOC PROFESSOR) K.HARITHA(19761A1223)  
K.MANJUSHA(19761A1217) B.PAVANKUMAR(19761A1206) D.ROSI REDDY(20765A1202)

Our project is entitled as “COLLEGE CANTEEN AUTOMATION”. The objective and scope of this project is to provide the facility for the college students to order food online and pay money for the ordered food item online. Existing system is entirely a manual method which involves a lot of paper work, also no centralized database available and many students have to wait to order the food and pay money. Our proposed system eliminates all the limitations of the existing system by enabling students to order food online and pay money online. This is a website which provides services to stay connected with your canteen server through mobile phones. This website mainly simplifies the order processing and payment of money for both the students and canteen. It reduces the manual work and saves time.

Dr.B.Rama Devi  
(Assoc Professor)

## **Generic Medicine Store system**

B.Lekhasri(19761A1207),D.Manikantareddy(19761A1213), N.Indhumathi(19761A1235),P.Lalitha  
(19761A1244),N.Venkata prasad (20765A1204)

The main objective of this Generic Medicine Store system is to take the whole medical store online so that it is reachable to customers 24/7. It also aims at going towards cashless transactions. It will impart a wide visibility to the customers. Thus boosting the business to higher levels. The Generic medicine store will be a web-based system with a very user-friendly interface which indeed will make the whole management process easy to manage and operate with zero redundancies. Overall online medical booking store will become an efficient, highly responsive and an extremely accurate system. Generic medicines are those which contain the same active ingredient in the same quantity as a brand-name medicine. Generic medicines therefore have the same effect on the body in terms of curing disease as the brand-name medicines which they copy. Since, branded medicines are too expensive for common man to afford, therefore need of generic medicine arises. Generic medicines cost very little as compared to branded medicines. We have different existing systems like medical stores and android applications for generic medicine. Our topic main motto is to add some more features to the existing system to make people work easier.

Dr.K.Lavanya  
Assoc.Professor

## **Web site on Communicable diseases management system**

Communicable diseases are illnesses caused by viruses or bacteria that people spread to one another through contact with contaminated surfaces, bodily fluids, blood products, insect bites, or through the air. Cold, Covid-19 are the best examples for communicable diseases. These diseases may affect both individuals and communities. Adequate shelter, water, food, and sanitation linked to effective case management. Immunization, health education, and disease surveillance are crucial. However, delivery mechanisms are often compromised by loss of health staff, damage to infrastructure, insecurity, and poor co-ordination. so adequate information can be provided to the global world through our website in preventing, curing communicable diseases and provide required information to avoid the transmission of communicable diseases. We also provide online consultancy by the specialized doctors.

## **Emotion Based Music System**

**Presented by :** P.Maheswari(19761A1239), K.Kiran Kumar(19761A1225) ,  
P.DhanaLakshmi(19761A1238) ,P. Hema Harini(19761A1242) ,SK.Anwar Pasha (20765A1206)

Recent studies confirm that humans respond and react to music and that music has a high impact on person's brain activity. People tend to listen to music based on their mood and interests. This project focuses on creating a web application to suggest songs for user based on their mood by capturing facial expressions. Facial expression is a form of nonverbal communication. Computer vision is an interdisciplinary field that helps convey a high-level understanding of digital images or videos to computers. In this system, computer vision components are used to determine the user's emotion through facial expressions. Once the emotion is recognized, the system suggests a playlist for that emotion, saving a lot of time for a user over selecting and playing songs manually. Emotion-Based Music Player also keeps track of user's details like number of plays for each song, sorts songs based on category and interest level, and reorganizes the play-list every time. The system also notifies user about the songs that are never played so that they can be deleted or modified.

Mr.G.Rajendra,  
Asst.Professor,IT



# **Enterprise Resource Planning (Erp) System**

R.PRIYADARSHINI(19761A1246), CH.LAHARI(19761A1209) ,  
V.DHARMATEJA(19761A1259),A.GREESHMA(19761A1204)

ERP system provides a simple interface for maintenance of different student, department, faculties, library and others information. Managing all these departments and other modules manually is a very difficult and hard, ineffective and expensive task. So here we propose an ERP system for college. Our college ERP system has all the information about the students, teachers , departments , counsellors and other respected information. The system allows the admin to add students, faculties and any other information. Our system allows a faculty to enter or input student's attendance into the database which can later be viewed by students and faculties. The students can view his/her attendance through a separate student login. These systems have easy user interface and have powerful data management system which makes this system is very useful.

Mrs.M.Hemalatha  
(Sr.Asst.Professor)

## **Smart Agriculture and Its Applications UsingIot.**

: Agriculture plays an important role in the economy of the country. Internet of things has been made to support agriculture by making a smart agriculture. IoT based Smart Farming improves the entire Agriculture system by monitoring the field in real-time. With the help of sensors and interconnectivity, the Internet of Things in Agriculture has not only saved the time of the armers but has also reduced the extravagant use of resources such as Water and Electricity.It allows farmers to maximize yields using minimum resources such as water, fertilizers, seeds etc. Smart agriculture use drones and robots which helps in many ways. These improve data collection process and helps in wireless monitoring and control. This paper describes the implementation of various iot techniques used in smart agriculture. It provides a wide review on methods and technologies like ANFIS (adaptive network and based fuzzy interference system) PLSR (partial least-squares regression) model predictions, experiences in various challenges.

## **School Fee Management**

K. AJENDRA REDDY(19761A1219) , K. MEGHANA(19761A1224) ,A . BINDU SAI(19761A1203)  
,Y. NIKHIL SAI(19761A1264)

Our Project Title is "School Fee Management" . The main objective of the project is that parents can know the fee details of their children in this website. It is difficult for the parents to go to school or to call the school always to check the fee details of their children and maintaining the receipts and to remember the last date of the fees. It is a time consuming process for the parents and sometimes it is difficult to keep all the fee payment receipts in secured manner. And in the pandemic it was difficult to visit the school. From this website parents can know the fee details of their children by sitting at home only. We Provide the fee details, fee due dates of the students at one place and it can easily be accessible. In this website we use HTML, CSS, Java script, Python, DBMS, django.

Mr. K. Michael Sadgun Rao

(Assistant Professor)

## **Voice Based Email for Blind People**

B. BHAVANA (19761A1205),K. MANEESHA (19761A1222) ,N. DHARANI(19761A1236) ,  
N. BHUVANESH (19761A1234)

In today's era internet has become one of the basic requirements for human. A resolute role can be played by communication in promoting human development in today's new world of social change and of many technologies are available for communication, email is the mostly used communication media. But blind people face trouble to access the technology because of the fact that using them requires visual perception. So, we proposed this voice-based e-mail system for the people who require comfort and who are physically challenged. We will use "Text to Speech" converter and "Speech to Text" converter to help the blind people. The existing email system, its drawbacks and our proposed methodology to overcome them have been discussed in this project. We will use Viterbi Algorithm for this project The Viterbi algorithm is a dynamic programming algorithm. The system will not let the user make use of keyboard instead will work only on mouse operation and speech conversion to text. Also this system can be used by any normal person also for example the one who is not able to read. The system is completely based on interactive voice response which will make it user friendly and efficient touse.

Mr. K. RajaShekhar

Assistant Professor

## **Hospital Management System**

MD. SADHAK (19761A1229),M. KRISHNA REDDY (19761A1230),SK. MASTANI  
(19761A1252),T. GEETA (19761A1256)

Hospital Management System (HMS) is a computer or web-based system that facilitates managing the functioning of the hospital or any medical set up. This system or software will help in making the whole functioning paperless. It integrates all the information regarding patients, doctors, staff, hospital administrative details etc. The Existing Hospital Management system includes registration of patients, storing their details into the system but the details will be stored manually and waiting time of the patient increases, crowd formation is more in medical store. We have chosen this project because, as we know about our pandemic situation it has threatened lot of people mainly, old people etc. To overcome this situation, we are introducing our new project HMS to reduce the formation of crowd of people in hospitals. It reduces the waiting time of the patients, it also helps for hospital management works in the best way, it reduces the human effort. To overcome the limitations of this existing system, we are proposing two new facilities like Symptom checker, Medical package System. We here by conclude that this proposed kind of hospital management system will be helpful.

Sarvani Anandarao  
Assistant Professor

## **E-farming**

P. MANOBHI RAM (19761A1237) ,P. VENKATA REVANTH (19761A1240) ,V.VIJAYA  
LAKSHMI(19761A1261),Y. YAMINI SNEHITHA (19761A1263)

Our project is all about farmers. We all know that farmers are facing too many problems to grow their crop. Even after all the hard work and the production done by the farmers, in today's market the farmers are cheated by the Agents, leading to the poverty. The present existing system is not overall done. Only we can sell our crop product for them. In some cases, if the crop is needed to keep in the cold storage, all the storages are filled then the crop will be wasted. But our E-farming will sell the best seeds, fertilizers at cheaper price and the farmers to sell their products across the country and if they wanted to keep their product in any cold storage they can easily book a cold storage nearby just with some basic knowledge about how to use the website.

Mr. Ch.Sambasiva Rao  
(Asst. Professor)

## **Waste Management**

Several studies and researches have been conducted on the sources and characteristics of wastes as well as the possible adverse effect of inappropriate handling and best international practices. In this project we will create website in which we will collect the details of each and every person and collect the waste from them. And the next day the money will credit to their account based on their waste and we will upload the details of different types of waste available in our organization and we sell to required industries .Our project mainly focus on every individual is accountable for waste management. Waste Management is a global issue every individual should adopt 3R's Formula (Reduce,Reuse,Recycle).The main objective of this project is to bring awareness among the people about proper disposal of waste

## **E-Library for CSE and IT**

A.KAVYA(19761A1201) ,D.C.VARSHA(19761A1212) ,K.RAMYA SRI(19761A1220)  
,V.THARUN(19761A1258)

In general, Library is a place where we can get the books which we want. But it is often quite difficult to manage and maintain all the data manually. Because, there are so many works including maintaining the members data, book issues, book returns and lot more. This is one side of library systems. Owing to the advancement of technology, we are also aware of online/Digital libraries which are reducing the workload of the management as most of the manual work done is reduced. So, our project is mainly focussing on creating an E-Library for CSE and IT. The main objective and scope of our project is to provide a local reference for college students interms of Subject core books, Standard Reference materials, hand books and subject video links and some other features for free download, online reading , based on rating system . As a student we are aware of the ambiguity, so our project main aim is to provide a platform for students at which they can get a basic idea about the subjects with the help of the content we're providing there.

-:Mr.A.V.Nagarjuna Reddy  
(Assistant professor,LBRCE)

# **A Mask Detection Method For The Threat Of Covid-19 Coronavirus Using Deep Learning**

G. MOHAN KRISHNA(19761A1277),D.RUSHIKA SHREYA (19761A1276),G. RAVI  
TEJA(19761A1279),V. NAGA BINDU SRI (19761A12C7),B.ROHIT (20765A1207)

The corona virus COVID-19 pandemic is causing a global health crisis so the effective protection method is wearing a face mask in public areas according to the World Health Organization (WHO). The COVID-19 pandemic forced governments across the world to impose lockdowns to prevent virus transmissions. Reports indicate that wearing facemasks while at work clearly reduces the risk of Transmissions .We will use the dataset to build a COVID-19 face mask detector with computer vision using Python, Open CV, and Tensor Flow. In our proposed system we will use live video stream and finally in output it gives alert sound(buzzer) when someone not wearing mask .Our goal is to identify whether the person on image/video stream is wearing a face mask or not with the help of computer vision and deep learning.

Dr. B. Srinivas Rao  
Head Of The Department

## **Organ Donation Website**

Organ donation is the donation of biological tissue or an organ of the human body, from a living or dead person to a living recipient in need of a transplantation. Transplantable organs and tissues are removed in a surgical procedure following a determination, based on the donor's medical and social history, of which are suitable for transplantation. This android application will help user to get organ donor and doctors. This system has two entities namely, Admin and User. Admin can login using credentials. Admin can view all Doctors and they can add, update and delete Doctors. Admin can view and assign Doctor, Donor and note of the meeting details etc.

Admin can view list of donations and user list. User can register and login using credentials. If they forget password, send an email with OTP, and reset Password. User can change their password in case of security, View and update their profile. User can manage request by adding and updating request. User can also check the assigned doctor and donor etc. and can Chat with the Admin. They can select and view doctors list and also their details. User can manage donors. they can view and manage all previous donations. Notification on Admin Assigning doctors and donors to the Request. They will also get notification of their chats.

# **Travel and Tourism Management**

M. KRESHNAA(19761A1296) ,P. YUGALA(19761A12A8) ,G. SIVA KRISHNA(19761A1282) T.  
NAVYA CHANDRIKA(19761A12C0), N.VISHNU SAI(20765A1209

The Main objective of this Travel & Tourism project is to make the travel easy and comfortable for the users right from finding the routes and buses to till the booking of the tickets. In this project, we have two modules Admin and user. The project is to develop to manage the tourist in the tourism management website. The main module in this project is login in tourist management website.

-Dr. Rama Devi Burri  
Assoc. Professor

## **E-Commerce Website Design**

G.DEDEEPYA(19761A1278),V.CHARITHASRI(19761A12C1),K.SUJITH KUMAR(19761A1295),  
M.DAVID(19761A12A2),S.VARSHITHA(20765A1211)

Electronic Commerce is process of doing business through computer networks. A person sitting on his chair in front of a computer can access all the facilities of the Internet to buy or sell the products. People in the developed world and a growing number of people in the developing world now use e-commerce websites on a daily basis to make their everyday purchases. Unlike traditional commerce that is carried out physically with effort of a person to go & get products, ecommerce has made it easier for human to reduce physical work and to save time. E-Commerce which was started in early 1990's has taken a great leap in the world of computers, but the fact that has hindered the growth of e-commerce is security. Security is the challenge facing e-commerce today & there is still a lot of advancement made in the field of security. The main advantage of e-commerce over traditional commerce is the user can browse online shops, compare prices and order merchandise sitting at home on their PC. This study presents the design of e commerce website and outlines different aspects of developing e commerce website and the solutions to the challenges involved in developing one.

-Dr.K.Lavanya  
Assoiative Professor

## **Urban Spoon**

K.Akhila (19761A1289), A.Naga Asritha(19761A1265),N.Sai Sasank(19761A12A5)  
P.Uday Kiran(19761A12A7),Y.Chaithanya(20765A1212)

Food Industry has always been a profitable industry not only for manufacturers, suppliers, but also for the users, distributors. The online food delivery system is the need of hour because of the recent changes in the industry and the increasing use of the internet. The objective of this project is to provide a Real-time online food ordering system for the customer overcoming the traditional queuing system drawbacks and disadvantages. Food can be ordered online in a hassle-free manner through this proposed system from restaurants as well as mess services. This web-site functions as a link between the customers and the restaurant so that the customer can order food on the web-site. The web-site then passes this order to the restaurant which is going finally to deliver it to the customer. The food order taking methods from customer are improved by this system application. A Food Menu is set up online and as per their wish customers can simply place and track their order through the proposed system. Separate accounts are maintained for each user for more secured ordering by providing an ID and a password.

Dr.K.Phaneendra  
Assistant Professor

## **Online Voting System**

P.Prasanthkumar (19761A12A6), S.Saikumar(19761A12B6), V.Akash(19761A12C6)  
B.Vamsi(19761A1269)

Online Election System would have Candidate registration, document verification, autogenerated User ID and pass for candidate and Voters. Admin Login which will be handled by Election Commission .Candidate Login which will be handled By Candidate, Voters will get Unique ID and Password, Using which they can vote for a Candidate only once per Election. The project is beneficial for Election Commission, Voters as the can get to know the candidate background and choose wisely, and even for Candidate. The software system allows the Candidate to login in to their profiles and upload all their details including their previous milestone onto the system. The admin can check each Candidate details and verify the documents, only after verifying Candidate's ID and Password will be generated, and can remove faulty accounts. The software system allows Voters to view a list of Candidates in their area. The admin has overall rights over the system and can moderate and delete any details not pertaining to Election Rules.

M.Hemalatha  
Sr Asst Professor

## **BASIC NEEDS**

Ch. chandrasekhar (19761A1274), G. Abhishek(19761A1284),  
V. Anand(19761A12C3),Sk. Nazeer(19761A12B3)

The basic needs of a human being are food, clothing, shelter, safety etc ..Our main aim of this project isto fulfil the basic needs of though web application. Generally we have different web sites for different aspects like food ,clothing etc. But our project differs from other applications as well merge all this application in single website called basic needs, so that all the customers can get there needs done by accessing a single website. which reduces the wastage of time as we know that the time is precious

Mr. K. Rajasekhar  
Asst. Professor

## **Student Grievance Website**

B. Sri Sowmya(19761A1268),M. Krishnaveni(19761A1298),T. Keerthi(19761A12B7),M. Vamsi  
Krishna(19761A12C4)

A Grievance is that the dispute that arises at any level of organization. In an education organization, a student's community is the most vulnerable entity. In many circumstances students fail to state their issues and sometimes fail to seek out proper support for the issue they are facing in an organization. On analyzing the above mentioned problems we designed Student Grievance support system to deal with the grievance and to seek the redressal. The web application builds a platform for the students to lodge the arising conflicts in their daily walk of lives. In the web application students can address their complaints which are forwarded to the Grievance Redressal Committee.

Mr. V V Krishna Reddy  
Asst professor



## **Attendance System Using Face Recognition**

M.SWATHI (19761A1299) ,R.KALYAN(19761A12B1), M.PRIYANKA (19761A12A0)  
CH.KARTHIK(19761A1271)

Education institutes today are concerned about the consistency of students performance. One cause of this decrease in student performance is the inadequate attendance. There are several ways to mark your attendance, the most common ways to sign or call the students. It took longer and was problematic. From now on, a computer-based student attendance checking system is required that supports the faculty to keep records of attendance. We have used an intelligent attendance system based on face recognition in this project. We have proposed to implement a "Attendance System using Face Recognition" through this large applications are incorporated. The present implementation includes facial identification that is time saving and eradicates the possibilities of proxy attendance due to the facial authorization. This system can now be used in an area in which participation plays an important role. Open CV is the basic requirement for this system. The system implemented uses LBPH face recognizer to identify the face of the person in real time. Eigen faces and Fisher faces are affected both by light and we cannot ensure perfect light conditions in real life. An improvement in the LBPH faces recognizer to overcome this problem. This system compares the image of the test and the training image and determines who is and is not present. The attendance data is stored in an excel sheet that is automatically updated in the system.

Ms.Sarvani Anandarao  
Assistant Professor

## **Book Reseller Management System**

19761A1288 (J.J.S.AASRITHA) ,19761A12B8(T.NIKHITHASRI),  
19761A1285 (G.GNANESWARSAI),19761A12C5(V.NANDAGOPAL)

The Book reseller management system is a online website used for buying and reselling the books online . It will displays the book with good content when you searched online out of many books on the same topic. This management system ensures security for the user data. This management system main purpose is to buy the book from customers which they had already used, for the price they issued and we will upload those books in our website at low prices for the people who can't effort the higher costs. We will also show the preface or content page of the book which your trying to purchase ,so it will become easy for customers to choose and our idea is to upload the videos of the authors or professors or lecturers saying about the book or prefacing the book concept and their reviews on that particular book.

Mr.Ch.Sambasivarao  
Assistant Professor  
Dept. of IT, LBRCE

## **Department Library Management System**

R.Vaishnavi(19761A12B0),Ch.Manjusha(19761A1273),N.Haritha(19761A12A3)  
T.Anusha(19761A12B9)

Online Library Management System is a system which maintains the information about the books present in the library, their authors, the members of library to whom books are issued, library staff and all. This is very difficult to organize manually. Maintenance of all this information manually is a very complex task. Owing to the advancement of technology, organization of an Online Library becomes much simple. This management system is for monitoring and controlling the transactions in a library. We will provide admin login, the admin can search the book and can update the user information, retrieve and show details. The Online Library Management has been designed to computerize and automate the operations performed over the information about the members, book issues, return books and all other operations. This computerization of library helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced.

Mr.K.Raviteja  
Assistant Professor

## **Online Banking System**

19761A1272 (Ch. Saikumar),19761A1270(B. Aparna),19761A1287(G. Jahnvi),  
19761A12C8(Y. Harika)

Loans plays one of the major roles in the banking system. Banks make money by taking in funds from depositors and other sources and then lending money out to customers. The bank spread is the difference between what the interest a bank must pay to obtain the funds and the rate the bank charges on the loan. In our existing banking system we apply loans directly through bank by submitting the required documents manually and in person. In our proposed system we are going to introduce the new feature so that one can apply loan online through the bank website.

Mr. A.V. Nagarjuna Reddy  
Assistant Professor

## **Major projects submitted by 2017-21 (IV Year) batch students as partial fulfilment of Under Graduation B.Tech Degree**

### **Evaluating Missing Data Using Data Visualization**

G. RAJA GOPAL (17761A1213), M. BHARGAVI (17761A1235), V. AKHL (16761A1255)

In this project it is all about visual representation of the missing values and the actual data with the help of covid-19 dataset. We are taking the covid-19 datasets of three states [Andhra Pradesh, Telangana, Tamil Nadu]. Initially we are visualizing the actual datasets by using python programming missingness to the actual dataset of different percentages and then we will get the different datasets with the missing values. Then we are applying the different types of Imputation methods on the newly obtained datasets. Then we are getting the new dataset with the predicted values in the place of missing values. Now we are going to use the regression methods in order to decrease the margin values from highest to lowest values. Then we will get the dataset with modified values. This dataset will be considered as the final dataset. After getting the final dataset we are going to measure the accuracy of these techniques with the original values and determining the best technique in order to find the missing values in the table. Then this dataset will be processed under the different data visualization techniques in order to represent the data in the different forms like Bar chart, line chart, Scatter chart.

Dr. K. Lavanya  
Associate Professor

### **Classification Of Brain Images Using Machine Learning Techniques**

G. REVA DEVI (17761A1219), M. MEGHANA (17761A1239), K. MOUNIKA (17761A1230)  
V. ANUSHA (17761A1257)

Nowadays, so many investigators are incessantly trying to build an effective model to identify diseases. For that purpose, few arrangement methods have been recognized for the characterization of cerebrum pictures. So, it is essential to provide appropriate method for classifying images. By studying and analyzing the various previous papers we will be able to find which machine learning algorithm is more accurate and less time consuming. In this paper, we proposed a classification strategy based on Inverse discrete wavelet transform (IDWT) and random forest classifier. There are two steps involved in our proposed system: in the first step, features are extracted from images using Inverse discrete wavelet transform (IDWT) and those features are stored in the feature matrix; in the second step, random forest classifier is used for the classification of magnetic resonance images (MRI images).

Mr. A.V.N. Reddy Asst.prof

# **Spam Mail Detection Using Optimization Techniques**

(17761A1232)K. HARINI,(17761A1225)K. BALAJI,(17761A1222)K. GEETHA

On account of the widespread availability of internet access, email correspondence is one among the most well-known cost-effective and convenient methods for users in the office and in business. Many people abuse this convenient mode of communication by spamming others with conciseness bulk emails. They use emails to collect personal information from users to benefit financially. A literature review is conducted to investigate the most effective strategies for achieving successful outcomes while working with various datasets. KNN, SVM, Naive Bayes, Decision Tree, Random Forest, and Logistic Regression are all employed in the implementation of machine learning techniques. To make classifiers more efficient, bio-inspired algorithms such as BAT and PSO are used. The accuracy of every classification algorithm along with and without optimization is observed. Factors such as accuracy, f1-score, precision, and recall are used to compare the results. This project is implemented in Python along with GUI interface Tkinter.

Dr. K. Anupriya  
Assoc. Prof

## **Product Review Analysis and Text Summarization using Supervised Machine Learning Algorithms**

K. HEMA NAGA PADMA (17761A1226),G. LAKSHMI (17761A1215),CH. LAYA (17761A1207),A. HARIKA (20761A1201)

In this project, we developed a user interface that contains algorithms which classify the online product reviews. Online opinions have turned out to be a critical supply of data for customers earlier than making a knowledgeable buy rule. Rapid product opinions have a tendency to keep an excessive effect on the following product sales. We take the drive to examine the conduct traits of the early analysis via they have published opinions on universally huge e-trade tenets, namely Amazon and Yelp. In our project, we had selected to paintings on reading opinions of the diverse online product that has been reviewed in the shape of texts and the feature additionally been given a score on a scale from 1-5. We had received these statistics have set which had 2 statistics to be set: educate and check (break up as 75-25%). We had broken up the range score for the product into instructions in general: positive, negative. Thereby producing the accuracy of the graph among the three algorithms of machine learning based on the reviews of the product given by the customer for the online products.

Mr. Ch. Samba Siva Rao  
Asst. Professor

## **Speech Based Emotion Prediction Using Emoji's**

CH. LALITHA DEV(17761A1206),M. DIVYA SREE (17761A1212),P. NAGUL. SHAREEF  
(17761A124)

Speech consists of assorted information, like language, emotions, what type of message to be communicated with others etc. Emotions are the part of human life in every situation, sometimes one gets angry, sad, happy based on the dialogues and behavior of the opposite person. In this project we have a tendency to square measure aiming to predict these emotions supported the audio files. At first the dataset encompasses audio files. Here the emotions typically represented as happy, sad, surprised, angry etc., and could be divided into 2 varieties like positive emotions and negative emotions. Here emoji's are used to predict the emotion of the person, so that it can be quickly identified, for every feeling there will be a reserved emoji format supported that we have a tendency to square measure able to get emoji's for the required emotions given within the datasets. Before applying ways or models on the dataset, feature extraction plays a big role during this speech feeling prediction. Afterward we have a tendency to square measure applying Machine Learning Techniques such as Decision Tree, MLP classifier, neural networks and Augmenting the information using noise injection with Laplace and logistic distribution and pitch shifting and trimming the data so as to induce sensible performance.

Dr. K. Lavanya  
Associate Professor

## **FRUITS FRESHNESS DETECTION USING VGG-16**

:

**Submitted by:** G. MRUUDULA SRI (17761A1216)

The Quality of fruits or vegetables performs a crucial role in customer intake. This document offers an approach through making use of the Tensor flow library, Convolutional neural network algorithm to detect the quality or freshness. The method begins by taking fruit picture as input. At that time, the pictures are then passed to the filtration method where the fruit photos go through a training and testing method to extract required elements such as shape, surface, size of fruits are drawn. The algorithm uses these three features to determine its quality. With the help of the above features, we decide the standard and quality of fruit whether they are fresh or rotten. This technique is used to increase the accuracy of detection of the fruits freshness. This document also outlines the future work that can be implemented.

Dr. K. Anupriya  
Associate Professor

## **Missing Child Prediction By Using Machine**

CH. SAI SUDHA SRI (17761A1205), B. AKHILA (17761A1204), MD. MOBSIN ASMA  
(17761A1238)

Every year, a large number of children are missing in India. The number of missing cases is untraced. This paper proposes a novel use of machine learning techniques to identify the missing children. The public can take the photograph of the suspicious child and upload it in the common portal by giving their location and contact information. The uploaded image is automatically compared to the specified stored images of the missing child in the repository. The supervisor stores the details of the missing register ID in the repository with the details of the child. Classification is carried out with input image and the best match is selected from the database of missing children. A machine learning model is trained to identify the missing child from the database provided. When the input image is matched with the image in the database, the information of the child and the person will be reported to the appropriate officer to take necessary action. The perceptron technique in Python is used for face recognition. NumPy module in OpenCV-Python is used for performing mathematical and logical operations on arrays. The feature extraction is done by using HOG in Python. Prediction is done for checking the input image is present in the database or not.

Dr. B. Rama Devi  
Associate Professor

## **Social Distance Detection Framework Using Deep Learning**

P. RAGINI (17761A1247), M. SRIVASTAV, (17761A1237), K. JASHNAVI  
(17761A1223)

The fact that the COVID-19 outbreak recently affected millions of people around the world, the number of people infected is on the rise. Various nations are taking unprecedented precautionary measures to deal with the worldwide pandemic scenario and restrict the spread of the outbreak. For avoiding the virus spreading, social distance is one of the significant practices. The goal of this work is to provide a social distance detecting system based on deep learning technology as a preventative strategy for maintaining, monitoring, managing, and reducing physical encounters among people in a real-time environment. Here, object detection algorithms are used for people detection in the given pictures, which provides a bounding box for each human being with a centroid. After that, object tracking techniques are used to track people in the frame by assigning unique IDs to each of them. Following detection, distance measuring methods are used to determine the pairwise distance among people in the picture. An exact value is defined to determine that people are violating social distance measures or not. If the computed distance between detected human beings is greater than the predetermined value, they are classified as non-violating individuals; if the computed distance between detected human beings is less than the predetermined value, they are classified as violating individuals.

Dr. K. Anupriya  
Associative Professor

# **Weed Identification Using Deep Learning And Image Processing**

M. KAVYA (17761A1234),M. SAI TEJA (17761A1236),P. JAIENDRA REDDY (17761A1246)

Identifying the Weeds in the vegetable Ranch has been becoming difficult because the plants of the crop are spaced randomly. At this point, by doing research, weeds are identified in the crop through traditional approaches, which mainly focus on the direct differentiation of weeds. Detecting the weeds through the naked eye might be difficult because there are enormous varieties of weeds such as narrow-wide leaf and broadleaf in plantings. The automation used for implementing the identification of weeds is Deep learning (DL) and image processing (IP). Firstly, the Convolutional Neural Network (CNN) algorithm is used to recognize the weeds by drawing the bounding boxes around the green plants, and the left-over parts are identified as crops. Later on, Support Vector Machine (SVM) is used on the same dataset, confusion matrix and accuracy are generated. Agri\_data is the dataset used for training and testing data. By using the algorithms, we can identify whether they are weeds or crops. Accuracy of CNN and SVM's are compared for weed identification and prediction.

Keywords: Image processing; Convolutional neural network (CNN); Deep learning; Support Vector Machine (SVM); agri\_data [1].

K. Ravi Teja  
Assistant Professor

## **Crime Analysis and Prediction Using Data Mining And Machine Learning Techniques**

P.GAGANSAI(17761A1242),(17761A1251)S. SAI DIVYA,T. GOPI SAI CHANDU (17761A1255)

As the crime rate has been increasing in our day-to-day life where the presents are not enough for the identification and put an end to the on-going crime so as a result it was much difficult for the police also to predict and analysis the crime occurred. There is tremendous growth of criminal data. So, to conquer or build the bridge between the on-going crime to the prediction of crime technology must come into force such that the prediction is done based on the previous data analysis and the solving is easier for them [Police] by getting knowledge about the techniques they have to use. The main idea is to predict the crime of the foreseeing future with the help of the data sets by using Machine Learning for capturing the crime category with the help of previous data. The data set can be available in Kaggle platform such that it contains the Category of crime, Date and Day of crime, Longitude, Latitude is available we have to pre-process and made into our convenient and train the data by Random Forest and the XGBoost was used for the calculation of accuracy by providing data sets. As this accuracy was used for the people to be cautioned by getting the information of when and where the greatest number of criminal activities are taking place and which crime was being happened on that particular day is measured such that the people will take certain metrics for the protection from criminals.

Mrs.S.Nagamani  
Assistant Professor

# **An Approach For Classification, Sorting And Grading Of Indian Mango Varieties Based On Maturity**

MS.V. SREEJA PRIYARAJ(17761A1259),MS.G. SOWMYA MANASA(17761A1214),MR.K. GOWTHAM(17761A1228)

Mangifera indica is a crucial tropical fruit having a huge demand across the global market. Mangos are needed to have been ordered through their getting older level for enterprise use. As of now, this grouping is being accomplished physically which is commercial enterprise use. Not unique and willing to human Dunders. The objective of the investigation is to make a framework that can arrange mangoes based on their ripening stage automatically. First, we need to take images of different varieties or Andhra Pradesh mangoes like Chinnarassam, Peddarasam, herukurasanm, kobbari Mamidi, and so on. Calculations are proposed and executed utilizing OpenCV Python. To predict the stage, using these two methods in this paper those are RGB and Masking. In the RGB Technique, the aging stage is distinguished dependent on the blue, red, and green colors present in image though in the HSV technique is mainly used for the intensity. Based on the calculations done by the RGB method and asking, we can predict the stage of the mango into three stages like High Ripeness, Medium Ripeness, and Low Ripeness. After dividing the stages of mango, we can sort them according to their stage. Then we need to grade the mango according to their ripening stage and calculate the defective area of the mango. By finding defective areas, we can grade the mango by 5 classes namely (Grade 1, Grade 2, Damaged, Defective, and all). After we apply the classification methods to determine the accuracy. In this paper, we use classification algorithms namely SVM, Decision Tree, and Random Forest. Among all classification methods, we get high accuracy (100%) for SVM for RGB Method and 70% for Decision Tree. This new framework can expand the fair nature of mangos extensively, we can also reduce the manual power, decrease cost, increase productivity to provide an average accuracy rate 100

Mr. Michael Sadgun Rao Kona  
Assistant Professor

## **Classification Of Extreme Reviews From Online Products Using Rnn Model**

G.TARUN (17761A1218),Y.SRIRAM (17761 A1260),B.RAMADEVI (17761A1203)  
P.MANOJ (17761A1243)

The reviews on a particular product plays an important role in the sales of a product. There are genuine reviews where the customers review their opinion about the products out of joy or frustration. But from the study we came to know that some people get biased by certain brands and provide reviews which are not actually genuine. This reviewing also done as group. Though the previous methods exist for detecting fake reviews but they are just limited to verify the individual reviews. In this paper, the group reviews which are concentrating on a particular brand will be detected as extremist reviews. The characterizing is done using the RNN algorithm by which is also used to train data by itself. RNN is recurrent neural networks from tensorflow which is same as the regular artificial neural network but the only difference is RNN consists of an additional memory for computations. Here we used different types of the network like LSTM, Dense and dropout layers and a softmax layer for classification of the reviews as extremist or moderate

Dr. S. Naganjaneyulu  
Professor



## **Real Estate Price Prediction Using Ensemble Methods**

K. SAI PAVAN KUMAR (17761A1227), N. RAJYA LAKSHMI (17761A1241)  
V. CHANDRA SHEKAR (17761A1258)

Real estate is one of the popular areas in current society. Customers should be very careful when they are buying or selling the property. There exist several reasons for increasing in the demand of land and houses. The factors like locality of house, the rooms it consists of and cost of living at that particular place play an important role for deciding the value of house. Automated house price prediction can be done using linear regression, random forest and linear classification methods which are also termed as Ensemble methods. In the system, the data will be cleaned initially like removal and detection of extreme data from datasets and then the algorithms be applied.

Dr. B. Srinivasa Rao  
HOD & Professor

## **Bank Customer Churn Prediction Using Artificial Neural Networks**

K. VAMSI RUDRA VARMA (17761A1231), M. NEERAJA SAI (17761A1233)  
S. SOUNDARYA (17761A1248)

Customers can be considered as the biggest asset for any company or business sector. It also holds true for the banking sector. Without customers, banks cannot survive. If customers stop their frequent interaction with the banks then they cannot continue to survive in this competitive world. If the customers exit then there will be loss of revenue. It takes more time and resources for gaining new customers. The loss acquired by losing the customer will get bigger after some time. Also there should be reasons for the customer churn. Customer migrating to the other alternatives is not a good scenario. If the customers that are about to exit the bank were satisfied then that will be a good scenario. Prediction of customer churn will be very effective for getting the attention of the exiting customers which will be useful. By the help of machine learning techniques and artificial neural networks, customer churn can be predicted effectively.

Dr. S. Naganjaneyulu  
Professor

# **Ipl Data Analysis And Prediction Using Machine Learning**

G. LAKSHMAN TEJA (17761A1217),N. ANUSREE (17761A1202)  
M.PAVAN KUMAR(17761A1240)

When we hear the words like sports in India, Cricket will come to mind in majority of the people. To make this sport more interesting various formats like Test match. ODI and recently 20 cricket have been evolved. Most recently Indian Premier League commonly known as IPL which is played between the franchises across different states from India has become the popular league not only in India but across the world. Day by day the role of Data science and Machine learning in Cricket is increasing because of the vast amount of data that is generating from individual player to an entire series. We are going to use this existing data and stats to predict things like first innings score of a team and winning probability of second batting team etc. The project starts with scrapping the data of IPL matches that are played from 2008 to 2020 using Python modules like Requests and Beautiful soup. followed by pre-processing. Analysis and visualization of the data and finally creates a model that predicts total score and winning probability of teams. For building the models we are going to use Machine learning algorithms like Random forest, Linear regression. Logistic regression and support vector machine

Dr. B. Srinivasa Rao  
Professor & HOD

## **Detection Of Driver Drowsiness And Alert System**

K.SWARUPA(17761A1229),P.DILEEP SAGAR(17761A1245),K.THANMAYEE  
(17761A1254)

Driver drowsiness is now one of the most common causes of accidents. Most of the world's accidents are caused by this. As a result, detecting and indicating driver fatigue is an active research field so that a number of road accidents might then be avoided. The majority of traditional approaches are vehicle-based, behavioral-based, or physiological-based. The aim of this project is to design and develop a low-cost, real-time driver drowsiness detection system with the use of visual behavior of driver. In comparison with the other methods, this one provides greater accuracy and less expensive.

A webcam records the video in the organized system, and classification techniques are used to detect the driver's face in each frame. Facial landmarks on the detected face are pointed, and the eye aspect ratio and mouth opening ratio are computed, and drowsiness is detected using established adaptive threshold based on their values. A decision about the driver's drowsiness is made using these values and a machine learning approach. If drowsiness is observed, the driver will receive a warning and a message will be sent to the passenger. Here we want to use the Python programming language to carry out this project.

Dr.B.Rama Devi  
Assoc.Prof

# **Real-Time Face Mask Detection At Gateway Using Deep Neural Networks**

Ch.Humanvitha Sai Dharani(17761A1209),Sk.Mansoor(17761A1252),S.Pujitha  
(17761A1249)

In the phase of health care, COVID-19 pandemic is causing a worldwide emergency. COVID-19 had a high impact on human lives. This pandemic leads to loss of millions and billions of human lives. Corona virus mainly spreads by the droplets that are emerged by an infected person of corona or by direct close contact with them. Hence, World Health Organization (WHO) stated that by wearing a face mask the chance of virus emerging can be reduced. The risk of emerging the virus is high in public places like shopping malls, theatres etc. In these places to make sure that a person is wearing a mask, we are developing a gateway that allows a person into the public places only if the person is wearing a face mask. To develop the current project, we are combining OpenCV with Internet of Things(IoT). This system uses MobileNetV2 convolutional neural network. Binary Classification is used to separate person with facemask from person without facemask. With the help of Keras and OpenCV libraries detecting a person's face mask takes place. If the face mask is detected to a person's face, the gateway opens, and the person can move into the place or else gateway closes.

Mr. K. Rajasekhar  
Assistant Professor

## **Helmet Detection for Bike Riders using Deep Learning**

V. Sri Harshini(17761A1256),Ch. Siva Ram Prasad(17761A1208),D. Eswar (17761A1211)

Now a days motorbike injuries are growing daily in all of the countries. Motorcycle is one in every of foremost transportation utilized by the human beings for touring shorter distances. Wearing helmet is the primary one for motorcycle riders. By wearing the helmet, we can prevent the humans from causing accidents. Our project will automatically detect the person not wearing the helmet and impose the penalty using the registration number. In existing system implementation is done using traffic police or automatic detection techniques with low accuracy, but our system will contain high accuracy. In our implementation collect input from CCTV, the following techniques are used those are mobilenet is used for feature extraction, SSD (Single Shot Detector) is used for object detection. Combination of these will produce effective results. OCR is character recognition for extracting the registration number. This system is mainly used for the e-challan generation system.

-Mrs. A. Sarvani  
Assistant Professor

## Placement Details for A.Y 2020-21

SNO	ROLL NUMBER	NAME OF THE STUDENT	COMPANY	Package (LPA )	No. of Placements Company Wise
1	17761A1218	Guduru Tarun Ram Kumar Reddy	TCS CODEVITA	3.36	3
2	17761A1256	Vaishnava Sriharshini			
3	17761A1259	Velpula Sreeja Priyaraj			
4	17761A1227	Kokkiri Sai Pavan Kumar	VITUSA Through Neural Hack Competition	4	1
5	17761A1227	Kokkiri Sai Pavan Kumar	INFYTO	3.6	4
6	17761A1206	Chamallamudi Lalitha Devi			
7	17761A1218	Guduru Tarun Ram Kumar Reddy			
8	17761A1224	Ketepalli Umaharikka	CTS GENC	4	4
9	17761A1202	Nuvulla Anusree			
10	17761A1226	Killampalli.Hema Naga Padma			
11	17761A1234	Manda Kavya	ZENQ	3	4
12	17761A1247	Putchakayala Ragini			
13	17761A1209	Chinnam Humanvitha Sai Dharani			
14	17761A1217	Gudivada Lakshman Teja	TCS NINJA	3.36	12
15	17761A1221	K.N.V.S. Bhuvana			
16	17761A1247	Putchakayala Ragini			
17	17761A1205	Challa Sai Sudha Sri			
18	17761A1206	Chamallamudi Lalitha Devi			
19	17761A1209	Chinnam Humanvitha Sai Dharani			
20	17761A1213	Gajula Raja Gopal			
21	17761A1216	Gopu Mruudula Sri			
22	17761A1217	Gudivada Lakshman Teja			
23	17761A1219	Gundreddy Reva Devi			
24	17761A1221	K.N.V.S. Bhuvana			
25	17761A1227	Kokkiri Sai Pavan Kumar			
26	17761A1229	Kotagiri Swarupa	CTS GENC NEXT	7	1
27	17761A1231	Kunkalagunta Vamsi Rudra Varma			
28	17761A1234	Manda Kavya			
29	17761A1221	K.N.V.S. Bhuvana	ACCENTURE	4.5	6
30	17761A1207	Chembeti Laya			
31	17761A1218	Guduru Tarun Ram Kumar Reddy			
32	17761A1242	P Gagan Sai			
33	17761A1247	Putchakayala Ragini			
34	17761A1249	S.Pujitha			
35	17761A1252	Shaik Mansoor	TECHIGAI	5	1
36	17761A1242	P GAGAN SAI	CTS SALESFORCE	5.4	2
37	17761A1202	Nuvulla Anusree			
38	17761A1217	Gudivada Lakshman Teja	EFFTRONICS	3.98	1
39	17761A1214	Gandikota Sowmya Manasa			
40	17761A1214	Gandikota Sowmya Manasa	HCL	3.5	4
41	17761A1215	Lakshmi Gannavarapu			
42	17761A1225	KETHE BALAJI			
43	17761A1231	Kunkalagunta Vamsi rudra varma			
44	17761A1212	Divya Sree Majeti	ZEN TECHNOLOGIES	3.5	1
45	17761A1204	Budde Akhila	INFOSYS	3.5	8
46	17761A1225	KETHE BALAJI			
47	17761A1231	Kunkalagunta Vamsi Rudra varma			
48	17761A1232	KURAKULA HARINI			
49	17761A1236	MATURI SAI TEJA			
50	17761A1241	Nidamaneni Rajyalakshmi			
51	17761A1245	Dileep Sagar Prathipati			
52	17761A1260	Yadlapalli Sriram			
53	17761A1208	Siva Ram Prasad Cheruku	COGNINE TECHNOLOGIES	2	1
54	17761A1242	P GAGAN SAI	KJ SYSTEMS	3	1
55	17761A1207	Chembeti Laya	SUTHERLAND Non Voice	2.4	5
56	17761A1241	NIDAMANENI RAJYALAKSHMI			
57	17761A1212	DIVYA SREE M			
58	17761A1249	S.Pujitha			
59	17761A1251	Seelam Saidivya	WIPRO TALENT NEXT	3.36	3
60	17761A1235	BHARGAVI MANDASU			
61	17761A1221	Naga Venkata Sai Bhuvana Bhuvana Ka			
62	17761A1232	KURAKULA HARINI	MINDTREE	4	3
63	17761A1212	DIVYA SREE M			
64	17761A1214	GANDIKOTA SOWMYA MANASA			
65	17761A1238	MD MOHSIN ASMA	Brightchamps	2	2
66	17761A1230	Kothuru Sai Mounika			
67	17761A1252	Shaik Mansoor			
		<b>OFF CAMPUS SELECTIONS</b>			
68	17761A1252	Shaik Mansoor	TCS	3.36	1
69	17761A1230	Kothuru Sai Mounika	INFOSYS	3.5	1
70	17761A1230	Kothuru Sai Mounika	MINDTREE	4	1
71	17761A1225	KETHE BALAJI	WIPRO	3.5	1
72	17761A1225	KETHE BALAJI	Capgemini	3	1
73	17761A1208	Siva Ram Prasad Cheruku	INFOSYS	3.5	1

## Events organized by Dept of Information Technology

### One Day Guest Lecture on “Basics of Bio-Informatics”

Event Type : Guest Lecture

Date / Duration : 02/02/2021/One Day

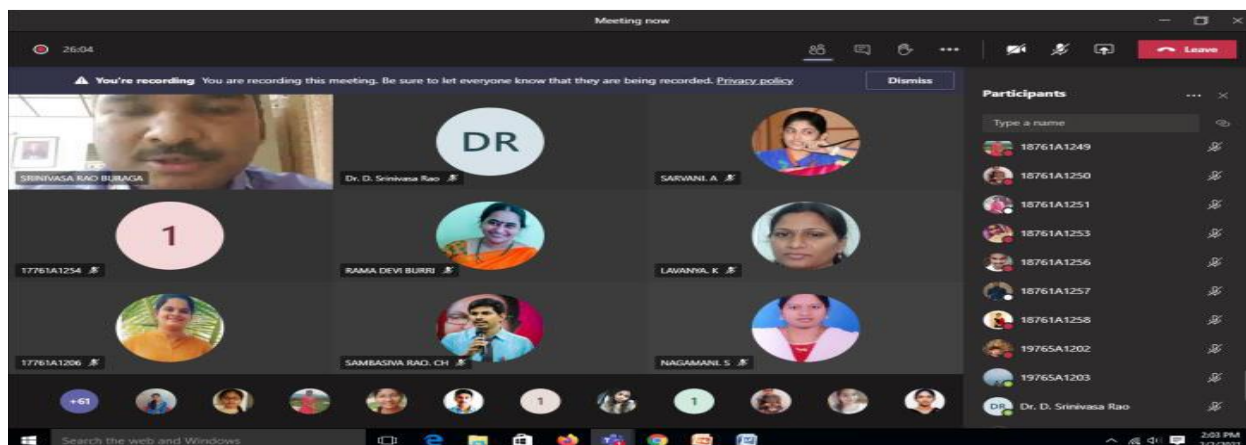
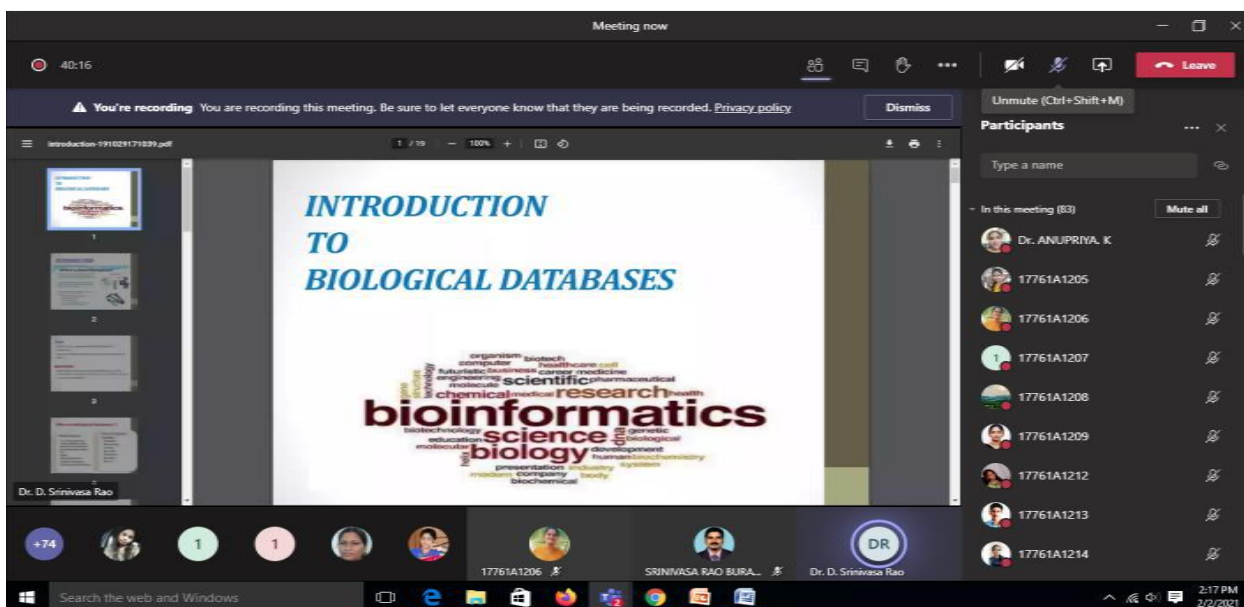
Resource :Dr.D.Srinivasa Rao

Name of Coordinator(s): Dr. K. Anupriya, Mr.K.Raviteja and Dr.S.Naganjaneyulu

Target Audience : Third Year &Final Year Students Total no of Participants: 109

Objective of the event: To enhance theoretical knowledge in Bio-Informatics especially in Protein Databases

Outcome of event : Students understood the importance of Bioinformatics & the role of an IT engineer in the Biological data Analysis



**“NATIONAL LEVEL ONLINE FDP on SOFT COMPUTING, MACHINE LEARNING AND APPLICATIONS”**

Event Type: FDP (Online)

Date / Duration: 24th – 28th June 2021, Five Days.

Resource Persons:

1. Dr Durga Toshniwal, Prof., Dept. of CSE, IIT Roorkee.
2. Dr. Venkata NareshbabuKuppili, Assist. Prof., Dept of CSE, NIT,Goa.
3. Dr. V. Susheela Devi, Principal Research Scientist, Dept.of.CSA, IISc, Bangalore.
4. Dr. Srilatha Chebrolu, Assist. Prof., Dept. of CSE, NIT, Andhra Pradesh.
5. Dr.RamalingaswamyCheruku, Assist. Prof., Dept. of CSE, NIT, Warangal.
6. Dr. Sateesh Kumar Peddoju, Assoc. Prof., Dept. of CSE,IIT,Roorkee

Name of Faculty Coordinator(s): • Dr. K. Lavanya, Assoc.Prof., Dept.of IT, LBRCE-Mylavaram. • Dr.AnupriyaKoneru, Assoc.Prof., Dept.of IT, LBRCE-Mylavaram

Name of Student Coordinator(s): • B . Jitendra Kumar (18761A1209), III-IT  
• R. Priyadarshini (19761A1246), II A Sec –IT

Target Audience: Faculty & industry persons from various institutions & organizations with in the India

Total no of Participants: 74

Objective of the event: • To disseminate the knowledge of Machine Learning and Soft Computing Techniques among students, researchers and academicians. • To provide basics of Data Analysis and the use of Soft Computing Algorithms in real applications • To provide conceptual understanding of different soft computing algorithms in feature selection and classification. • To provide Hands-on experience on various Python tools for applying Machine Learning and Soft Computing Algorithms.

Outcome of event: At the end of the event participants can able to • Understand the Soft Computing and Machine Learning Concepts. • Understand different Soft Computing algorithms. • Work on Various Python tools used for Soft Computing Techniques. • Perform Data Analysis using

# Machine Learning and Soft Computing approaches in Real Time Applications. • Explore Hands-on Experiences on all topics.

## Brochure:

<p><b>Resource Persons:</b></p> <ul style="list-style-type: none"> <li>This Online FDP is in collaboration with other organization / Institution / Industry / Individual which have expertise in that area.</li> <li>Eminent Professors and Experts in the area of Soft Computing, and Machine Learning from IITs, and NITs.</li> </ul> <p>Dr Durga Toshniwal, Prof., Dept. of CSE, IIT Roorkee          Dr. Venkata Nareshbabu Kuppli, Assist. Prof., Dept of CSE, NIT-Goa          Dr. V. Susheela Devi, Principal Research Scientist, Dept. of Computer Science and Applications, IISc, Bangalore          Dr. Srilatha Chebrolu, Assist. Prof., Dept. of CSE, NIT Andhra Pradesh          Dr. Ramalingaswamy Cheruku, Assist. Prof., Dept. of CSE, NIT- Warangal          Dr. Sateesh Kumar Peddaju, Assoc. Prof., Dept. of CSE, IIT-Roorkee.</p> <p><b>Eligibility:</b></p> <ul style="list-style-type: none"> <li>Faculty Members of AICTE Approved Institutions</li> <li>Research Scholars, PG Students &amp; Industry</li> <li>Persons working in R&amp;D Organizations</li> </ul> <p><b>Registration and Fee Particulars:</b></p> <ul style="list-style-type: none"> <li>No Registration Fee</li> <li>Participants will be selected based on First Come First Serve Basis</li> <li>Registration for the Program can be done by clicking <a href="https://forms.gle/PYvwzG6Ayw2TVf8">https://forms.gle/PYvwzG6Ayw2TVf8</a></li> </ul> <p><b>Important Dates:</b></p> <ul style="list-style-type: none"> <li>Last Date for Registration :21/06/2021</li> </ul> <p><b>Certificate Criteria:</b></p> <ul style="list-style-type: none"> <li>A test will be conducted at the end of the program.</li> <li>Minimum Attendance needed: 80%</li> </ul> <p><b>Contact:</b></p> <p>Dr. K. Lavanya, Associate Professor, Department of IT, Mobile: 8499097990 E-mail: <a href="mailto:dr.lavanyakampa@gmail.com">dr.lavanyakampa@gmail.com</a></p> <p>Dr. K. Anupriya, Associate Professor, Department of IT Mobile: 9492038061 E-mail: <a href="mailto:anupriyakoneru@lbrce.ac.in">anupriyakoneru@lbrce.ac.in</a></p>	<p style="text-align: center;"><b>COMMITTEE MEMBERS</b></p> <p><b>Chief Patrons:</b></p> <ol style="list-style-type: none"> <li>Er. Lakireddy Bali Reddy, Chairman</li> <li>Sri L. Jaya Prakash Reddy, Co-Chairman</li> <li>Sri L.R.N.K. Prasad Reddy, Vice-Chairman</li> </ol> <p><b>Patrons:</b></p> <ol style="list-style-type: none"> <li>Sri G. Srinivasa Reddy, President</li> <li>Dr. K. Appa Rao, Professor &amp; Principal</li> <li>Dr. K. Harinatha Reddy, Vice Principal</li> </ol> <p><b>Convener:</b></p> <p>Dr. B. Srinivasa Rao, Professor &amp; HOD, IT</p> <p><b>Coordinator:</b></p> <p>Dr. K. Lavanya, Associate Professor, IT          Dr. K. Anupriya, Associate Professor, IT</p> <p><b>Advisory Committee:</b></p> <ol style="list-style-type: none"> <li>Dr. B. Srinivasa Rao, Professor, IT</li> <li>Dr. S. Naganjaneyulu, Professor, IT</li> <li>Dr. B. Rama Devi, Associate Professor, IT</li> </ol> <p><b>Organizing Committee:</b></p> <ol style="list-style-type: none"> <li>Mrs. M. Hemalatha, Senior Asst. Professor, IT</li> <li>Mr. K. Phaneendra, Asst. Professor, IT</li> <li>Mrs. S. Nagamani, Asst. Professor, IT</li> <li>Mr. G. Rajendra, Asst. Professor, IT</li> <li>Mr. Michael Sadgun Rao Kona, Asst. Professor, IT</li> <li>Mr. K. Raja Sekhar, Asst. Professor, IT</li> <li>Mrs. A. Sarvani, Asst. Professor, IT</li> <li>Mr. V. V. Krishna Reddy, Asst. Professor, IT</li> <li>Mr. Ch. Sambasiva Rao, Asst. Professor, IT</li> <li>Mr. K. Raviteja, Asst. Professor, IT</li> <li>Mr. A. V. N. Reddy, Asst. Professor, IT</li> </ol>	<p style="text-align: center;"><b>NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAM</b></p> <p style="text-align: center;">On</p> <p style="text-align: center;"><b>SOFT COMPUTING, MACHINE LEARNING AND APPLICATIONS</b></p> <p style="text-align: center;">(24<sup>th</sup> - 28<sup>th</sup> June 2021)</p>  <p style="text-align: center;"><b>Organized by Department of IT (Accredited by NBA under Tier-I)</b></p> <p style="text-align: center;">   </p> <p style="text-align: center;">(Rank Band: 201-250) (Under Tier-I)</p> <p style="text-align: center;">  </p> <p style="text-align: center;"><b>LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING</b></p> <p style="text-align: center;">(Autonomous)</p> <p style="text-align: center;">Accredited by NAAC &amp; NBA (CSE, IT, ECE, EEE, MECH)          ISO 9001:2015 Certified Institution          Approved by AICTE, New Delhi and Affiliated to JNTUK,          Kakinada          L.B. REDDY NAGAR, MYLAVARAM, KRISHNA DIST., A.P.-521 230.</p>
--	--	---



**ABOUT THE INSTITUTE**

LBRCE was founded through Lakireddy Bali Reddy charitable trust in 1998 which stands for quality technical education which is exemplified by the continuous strides it has taken towards excellence in the last two decades. Started with an intake of 40 and now our intake is of 1152 Students. It has got Autonomous Status in the Year 2010 from UGC which is extended for a period of 06 years in 2016. We were accredited with NAAC and NBA (CSE, IT, ECE, EEE & MECH) under Tier-I valid up to 2021-22. The College has also been awarded 2(A) and 12(B) status, apart from the recognition as a 'College with Potential for Excellence (CPE)' from the UGC. We take pride to have large pool of well-qualified and experienced faculty.

**About the Department:**

The department of Information Technology was established in the year 1999 with an intake of 40 seats in UG program. Student intake is increased from 40 to 60 in the year of 2001. Student intake is increased from 60 to 120 in the year of 2018. It is the one of the most emerging programme in LBRCE. As IT plays a remarkable role in almost all sectors, due to this the need of Information Technology Engineers increased who could gain knowledge in recent technologies. Our department is intended to train the students in elementary courses and cutting-edge technologies like Cloud Computing, Android application, Big data, Digital marketing, Social networking and Digital communication for solving many social and business problems.

**Department Vision:**

- To emerge as one of the most preferred department for the budding engineers, aspiring to be successful IT professionals.

**Department Mission:**

- To inculcate team skills and leadership qualities in the student through projects, seminars and group activities.
- To impart quality education with a well-designed curriculum, consistent with industry requirements, that equips the student to face the career challenges.
- To cultivate the qualities of social awareness and service to the humanity among students.
- To extend the student's learning beyond the curriculum, through workshops on cutting edge technologies.

**Topics to be covered:**

- Research issues in soft computing and machine learning
- Strategies for machine learning - Supervised, Unsupervised and Reinforcement Learning
- Feature Selection/Extraction, Dimensionality Reduction, Principal Component Analysis
- Decision Tree Learning, Deep Neural Networks
- Soft computing for machine learning
- Support Vector Machine
- Neural Networks, Perception, Back Propagation Algorithms
- Ensemble Learning
- Fuzzy Logic, Fuzzy C and Rough K Means Clustering.
- Deep Learning, CNN

**Key Takeaways:**

After the completion of the FDP, the participants will be able to:

- Develop basic understanding of Soft Computing and Machine Learning Concepts.
- Understand different Soft Computing algorithms.
- Work on Various Python tools used for Soft Computing Techniques.
- Understand status of the Data Analysis using Machine Learning and Soft Computing approaches in Real Time Applications.
- Explore Hands-on Experiences on all topics.

**About the FDP:**

The current trend in technology is to integrate intelligent attributes in the existing systems so as to improve their performance and make them autonomous. Both Machine learning and Soft Computing have become integral part of intelligent systems and have already been used to solve a wide range of problems both from science and technology. The objective of this five day workshop is to introduce the participants with the basic concepts, emerging trends and applications of neural networks, fuzzy logic, evolutionary computing and machine learning concepts with particular focus on supervised and unsupervised learning techniques. This workshop will be useful for faculty of engineering and sciences, research PG scholars, Industry people who are interested in the learning of Soft computing and Machine Learning models.

**Objectives of the FDP:**

- To disseminate the knowledge of Machine Learning and Soft Computing Techniques among students, researchers and academicians.
- To provide basics of Data Analysis and the use of Soft Computing Algorithms in real applications
- To provide conceptual understanding of different soft computing algorithms in feature selection and classification.
- To provide Hands-on experience on various Python tools for applying Machine Learning and Soft Computing Algorithms.

**LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING (AUTONOMOUS)**  
 Approved by MAAC & NBA (ISE, IT, ECE, EEE & ME under Tier - I)  
 Approved by AICTE and Permissible Authorities in JNTU, Roorkee

**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**National Level Online FDP**  
 "Soft computing, Machine Learning & Applications" from 34<sup>th</sup> to 38<sup>th</sup> June 2021

**For Registration:**

**FREE Registration**

**For More details:**  
 Dr. E. Jayanya 8490087980  
 Dr. K. Anupama 8492028801  
[www.lbrce.ac.in](http://www.lbrce.ac.in)

**Inauguration**

**APPLICATION AREAS OF FUZZY SYSTEM**

- Industrial control
- Human decision making
- Image processing
- Washing Machine
- Air conditioners, etc.

**Air Conditioner**

Home Decision Making

Image Processing

Session by Dr Durga Toshniwal, Prof., Dept. of CSE, IIT Roorkee

**TERMINATION CONDITION**

- The termination condition of a Genetic Algorithm is important in determining when a GA run will end. It has been observed that initially, the GA progresses very fast with better solutions coming in every few iterations, but this tends to subside in the later stages where the improvements are very small. We usually want a termination condition such that our solution is close to the optimal, at the end of the run.
- Usually, we keep one of the following termination conditions -
  - When there has been no improvement in the population for X iterations.
  - When we reach an absolute number of generations.
  - When the objective function value has reached a certain pre-defined value.

Session by Dr Durga Toshniwal, Prof., Dept. of CSE, IIT Roorkee

Participants (21)

Dr. Venkata Nareshbabu Kuppili

Session by Dr. Venkata Nareshbabu Kuppili, Assist. Prof., Dept of CSE, NIT,Goa



## **“PROFESSIONAL SKILLS DEVELOPMENT TRAINING (Phase-II)”**

Event Type: Workshop (Online)

Date / Duration: 27th – 29th May, 2021, Three Days.

Resource Persons : Dr . Achutha Ramaiah (Professional Behavior) Mrs . K. Sridevi(Oral Communication-1) Mrs . M .Anuradha(Professional Body Language) Syed MohiburRahaman (Winning Strategy) Dr . B . Srinivasa Reddy (Oral Communication-2) Dr.PawelVeliventi(Written Communication)  
Name of Faculty Coordinator(s): Dr. K. Lavanya, Assoc.Prof., Dept.of IT, LBRCE-Mylavaram. Dr.Anupriya Koneru,Assoc.Prof.,Dept.of IT, LBRCE-Mylavaram. Mr.V.V. Krishna Reddy, Asst.Prof.,Dept.of IT, LBRCE-Mylavaram

Name of Student Coordinator(s):Ms. G . Aasritha(18761A1220),III-IT Ms . D .DivyaSree(18761A1216),III-IT Mr . B . Jitendra Kumar(18761A1209),III-IT Mr. J. Varun Vamsi(18761A1225),III-IT

Target Audience: Non-Teaching Staff Total no of Participants:45

Objective of the event: To improve the professional Skills to improve their knowledge

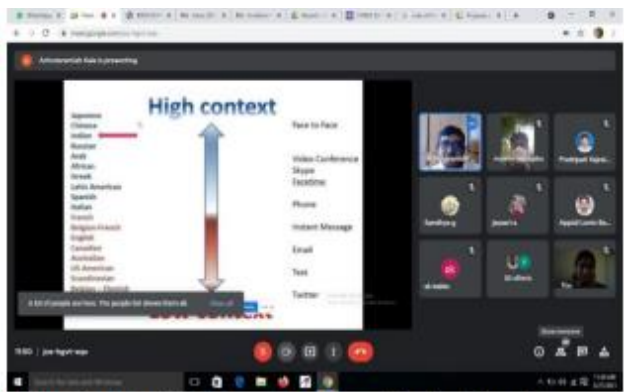
Outcome of event: At the end of the event participants (Non-teaching Staff) can able to oTo improve their oral communication o To improve their written communication o To improve their professional Body Language



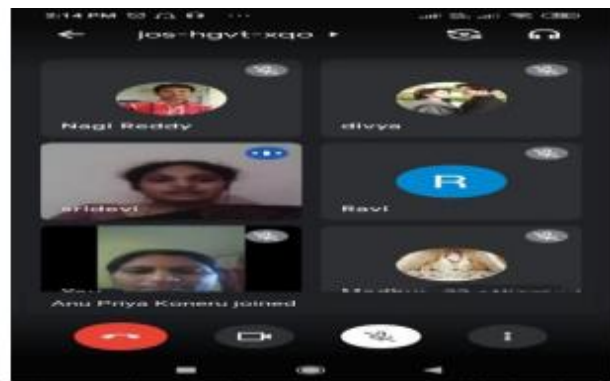
**Title: Addressing about workshop by Dr. B. Srinivasa Rao, HOD,IT**



**Title: Session-I Delivered by Dr. Achutha Ramaiah (Professional Behavior)**



**Title:** Session-1 Delivered by Dr . Achutha Ramaiah (Professional Behavior)



**Title:** Session-2 Delivered by Mrs . K. Sridevi(Oral Communication-1)



**Title:** Addressing the gather by Dr. K. Apparao, Principal ,LBRCE



**Title:** Session-2 Delivered by Mrs . M . Anuradha(Professional Body Language)



**Title:** Dr.Pawel Veliventi(Written Communication)



**Title:** Valedictory and Vote of thanks delivered by Dr.K.Lavanya,Co-ordinator

# Brochure:

## INTRODUCTION

Teaching and non-teaching staff are the two essential workhorses of any academic institution. It is essential for the non-teaching staff to perform their duties responsibly to enable the teaching staff and the organization to work smoothly. They both have to work in synchronization with each other to make the organization grow. This workshop is an attempt to train the non-teaching staff with precise skills to perform their duties efficiently. Some of the skills which are important for them to excel are like Communication Skills (Oral and Written), Email Writing, and Behavioral Skills (High and Low Context). Each participant will be given a participation certificate.

This is the series of workshops planned by the Information Technology Department for non-teaching staff. In the subsequent events, advanced skills will be dealt. The workshop is planned to impart both theoretical aspects and practical knowledge to the participants. Each day, the forenoon session deals with theoretical aspects and real time applications of the topics. The entire afternoon session is devoted to give hands on practice to the participants. At the end of the course, there will be a programming test to the participants and the participant who stands first will be given a prize and a merit certificate in addition to the participation certificate.

### Course Contents:

- Professional Behavior
- Communication with visitors, Parents, Students, Faculty and Guests
- Professional Phone call Conversation
- Demonstrating College facilities
- Response to the Queries
- Managing people
- Instructing students regarding the lab
- Student management in the Lab
- Formal mails
- Informal mails
- Minutes of the Meeting
- Writing mail to outsiders
- Preparing Invitations & Circulars
- Generate formal WhatsApp Messages to pass the information
- Generate formal messages (SMS) to parents regarding their wards

## ELIGIBILITY

The program is open for non-teaching and Lab technicians of all departments of LBRCE, Mylavaram.

## REGISTRATION FREE

<https://forms.gle/Gv4ZQWQQPuzNdkkU7>

## IMPORTANT INFORMATION

Last Date for Submission: 26-05-2021

### Address for Correspondence

**Dr.K. LAVANYA**  
CO-ORDINATOR

Department of Information Technology  
Lakireddy Bali Reddy College of Engineering  
Mylavaram- 521 230, Krishna (Dt) A.P.  
Tel.No.: 08659 222933(Ext-109)  
Mobile: 8499087990

**Dr. K. Anupriya**  
CO-ORDINATOR

Department of Information Technology  
Lakireddy Bali Reddy College of Engineering  
Mylavaram- 521 230, Krishna (Dt) A.P.  
Tel.No.: 08659 222933(Ext-109)  
Mobile: 9441132886

**THREE DAY WORKSHOP**  
ON  
"PROFESSIONAL SKILL DEVELOPMENT  
TRAINING FOR INSTITUTE NON-TEACHING",  
Phase-II  
(27<sup>th</sup> - 29<sup>th</sup> May, 2021)



### Chief Patron

**Sri Lakireddy Bali Reddy,**  
Chairman  
**Sri Lakireddy Jaya Prakash Reddy,**  
Co-Chairman  
**Sri Lakireddy Prasad Reddy,**  
Vice-Chairman

### Patron

**Sri G.Srinivasa Reddy, President**  
**Dr. K.Appa Rao, Principal**  
**Dr. K. Harinatha Reddy, Vice Principal**

### Organizing Committee

All the IT department Staff Members.

### Covener

**Dr.B.Srinivasa Rao**  
Prof. & HOD, IT Dept.  
Coordinator(s)  
**Dr.K.Lavanya, Assoc.Prof, IT Dept.**  
**Dr.K. Anupriya, Assoc.Prof, IT Dept.**  
**Mr.V.V.Krishna Reddy, Asst. Prof, IT Dept.**

### Organized by

DEPARTMENT OF IT  
LAKIREDDY BALI REDDY COLLEGE OF  
ENGINEERING (Autonomous)  
MYLAVARAM - 521 230  
KRISHNA (DT) A.P.

Ph : 08659 222933 Fax : 08659 222931 <http://www.lbrce.ac.in>

## **“An Awareness Program on Information and Cyber Crime”**

**Event Type :** Guest Lecture

**Date(s) :** 26 May 2021

**Name of Coordinators:**

Dr. S. Naganjaneyulu, Professor, Dept. of IT, CSI Student Branch  
Counselor.

Mr. Ch. Sambasiva Rao, Asst.Professor, Dept of IT

Mr. P. Vamsi Naidu, Asst.Professor, Dept of CSE

**Target Audience :** B.Tech. Students across the country

**Total no of Participants:** 365

**Objective of the Event :**

The main objective of this Awareness Program is to make the students to  
Aware about different cybercrimes which are happening in the real life and  
how to protect from those crimes by following certain precautions. The  
Guest Lecture will also emphasize on the Importance of Information  
especially in the digital world.



## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING(AUTONOMOUS)

Affiliated to JNTUK Kakinada & Approved by AICTE, New Delhi  
Accredited By NAAC, Accredited By NBA Tier-I & Certified by ISO 9001:2015  
L.B. REDDY NAGAR, MYLAVARAM – 521230. A.P. INDIA



### An AWARENESS PROGRAM ON “INFORMATION & CYBER CRIME”

DATE: 26 May 2021.  
TIME: 11:00A.M-12:30 PM.

#### PATRONS

Sri. G. Srinivasa Reddy, President  
Dr. K. Apparao, Principal  
Dr. K. Harinatha Reddy, Vice Principal

#### RESOURCE PERSON



Mr. Sai Satish  
Indian Servers

#### CONVENERS:

Dr. S. Naganjaneyulu, Professor, 82476 33844  
Mr. P. Vamsi Naidu, Asst. Professor, 97010 10880  
Mr. Ch. Sambasiva Rao, Asst. Professor, 88977 31838

#### STUDENT CO-ORDINATOR'S

Ms. S. Swathi, II IT, 83320 36585  
Ms. A. Sasi Satyogitha, II CSE, 94925 25986  
Ms. R. Priva Darshini, II IT, 70138 85242  
Ms. M. Aasritha, II CSE, 93908 43647

USE THE LINKS TO JOIN OUR  
WHAT'S APP GROUP

<https://chat.whatsapp.com/HfhWeaPsZh1Hr0RQJiLGbv>

For Registration

Click on 'REGISTER'

\*E-certification will be issues to all the  
Participants who attended the webinar

Telegram link

<https://t.me/joinchat/Vd4nvv5iqq0xMjQ1>

**\*NO REGISTRATION FEE\***

CSI- LBRCE STUDENT BRANCH



STAY  
HOME  
STAY  
STRONG





# CSI-LBRCE STUDENT BRANCH



## AWARENESS PROGRAM ON INFORMATION & CYBER CRIME

Speaker of the event: **D.SAI SATISH**  
**CEO OF INDIAN SERVERS**

Date: 26 MAY 2021

Organized by  
Department of Computer Science & Engineering  
and  
Information Technology



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)**

Affiliated to JNTUK Kakinada & Approved by AICTE, New Delhi  
Accredited By NAAC, Accredited By NBA Tier-I & Certified by ISO 9001:2015

The screenshot shows a Zoom meeting titled "AWARENESS PROGRAM ON 'CYBER CRIME'". The interface includes a top bar with "LIVE 48:32 197 attendees" and a "Request control" button. The main area is split into two video feeds: one for "Appa Rao K" and a larger one for "SRINIVASA RAO BURAGA". A "Participants" list on the right shows 11 attendees, including "Mr. Sai Satish" (the speaker) and "SAMBASIVA RAO, CH". A bottom toolbar contains icons for mute, video, chat, and other meeting controls.

## “5G Technology and IOT”

**Event Type:** Workshop (Online)

**Date / Duration:** 27th – 29th May, 2021, Three days

**Resource Person: N. Surendra Babu**

Application Engineer, SAARC Region  
Calnex Solutions Limited, Scotland, UK.

**Name of Coordinator(s):** Mrs.S.Nagamani, Assistant.Professor., Dept.of IT,  
LBRCE-Mylavaram.

**Co-Cordinators:** Mrs. M.Hemalatha, Sr.Assistant.Professor., Dept. of IT,  
LBRCE-Mylavaram.

Mr.K.Phaneendra,AssistantProfessor,Dept.of.IT,LBRCE-Mylavaram.

**Target Audience:** B.Tech. (Second year& Third year) and MCA Students

**Students Total no of Participants:** Internal – 190 External-110

**Objective of the event:** To extend practical knowledge in 5G Technology and IOT

### **Outcome of event:**

At the end of the event students can able to Understand

- The Evolution of Telecommunications till 5G
- Working of Wired Telephones
- Network Devices
- Network Devices Cabling and Connectivity
- Network Sniffers
- How Internet works?
- Synchronization of Computer Network, PTP -1588V2 and SyncE protocols
- Applications of Computer Network Synchronization
- Global Navigation Satellite System (GNSS)
- Why 5G is better for IoT

## **Description / Report on Event:**

The three-day workshop conducted through Microsoft Teams on the first day and through Cisco Webex on remaining 2 days from 10.00A.M to 4.00.P.M

### **Day 1 (27/05/2021):**

This Workshop was inaugurated on 27th May,2021 by Dr. B. Srinivasa Rao, HOD of IT department. The day started with the welcome speech given by the II-year student and continued the workshop. Next, Day 1 sessions and the following topics covered:

- Update on Evolution of Tele Communicaitons
- start with Telegraph, advances in Wired Telephone, manual switching,
- automated switching, Modem, ISDN, Internet, Email, VoIP Calls and Internet Calling,Virtual Reality, Augumented reality.
- Update on Evolution of Mobile Communications
- Given update on 1G, 2G, 3G, 4G, 5G
- Role Of Electronics and Computer Engineering in the Evolution

**Day 2 (28/05/2021):** Next, in day-2 sessions covered the following topics :

- About Roters, Switches, HUB,IoT**
- About Rj11, RT45, BNC, Optical Cables
- what is data speed? what are the differnet data speeds available.
- How much fiber optical cable can handle bandwidth.
- Practical Session:**
- What address of the computer.
- What is MAC address
- What is IP address
- How check MAC and IP address of computer?
- How to configure IP address?
- Is it possible to configure/Modify MAC address?
- Why computer requires two address(MAC and IP addresses)
- About Wireshark



- How to capture Wired packets and Wireless packets
- Wireshark Demo – Capture ARP and PING packets in LAN
- Wireshark Demo – Capturing packets going to WAN
- Wireshark Filters, saving packets and sending PCAP over Email.


**Day 3 (29/05/2021):** Last day, regular sessions, quiz, feedback and valedictory completed

The topics covered in the last sessions include:

- Synchronization.
- How Synchronization achieved in 1G, 2G and 3G?
- What is GNSS?
- What are different GNSS systems?
- what is GPS (US), GLONASS (Russia), Galileo (EU), BeiDou (China)?
- what is QZSS (Japan) and IRNSS or NavIC (India)?
- How the 4G and 5G network looks like?
- What is PTP protocol?
- What is SyncE?
- How SyncE and PTP help to achieve Synchronization in ethernet based networks
- Why 5G is good for IoT
- Real strong reason behind every G
- 5G deployment status
- 5G Requirements
- Connecting all Generations
- Different flavours of 5G
- 5G Umbrella
- IoT Applications

Request Control

Participants


**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**  
 (Autonomous)

**THREE-DAY WORKSHOP**  
**ON**  
**"5G TECHNOLOGY AND IoT"**  
**(27<sup>th</sup> - 29<sup>th</sup> May 2021)**

Organized by  
Department of Information Technology

Resource Person  
N. Surendra Babu  
Application Engineer,  
SAARC Region Calcutta Solutions Limited, Scotland, UK.


Participants List:

- ANJANABAI, S
- 19701A1204
- 19701A1209
- 19701A1240
- 19701A1245
- Dr. BURAGA SRINIVASA RAO
- HEMALATHA, M
- Mr. N. Surendra Babu
- SRINIVASA RAO BURAGA

VIDEO PHONE FROM SELL LABS

1969 PERCEPT SET

Western Electric is crossing a telephone with a TV set.



EVOLUTION OF TELECOMMUNICATION

1969 PERCEPT SET

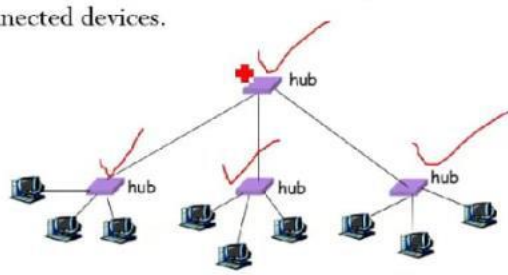
Western Electric is crossing a telephone with a TV set.



8

## 2. Physical Layer: Hubs

- ❑ A hub is basically a multiport repeater.
- ❑ A hub connects multiple wires coming from different branches.
- ❑ Hubs cannot filter data, so data packets are sent to all connected devices.



Sikhinam Nagama (cohost)

Sikhinam Nagama, T547, Assistant Professor, IT, LBRCE.

5/28/2021 10:17 AM

Webex Meeting Info Hide Menu Bar ^ Connected

File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help

Layout

Participants (167)

Search

- p priyadarshini Cohost, me
- PK PHANFENDRA KANAKAMFDAIA Host
- Si surendra babu n
- K KAVYA Cohost
- S SikhnamNagamani Cohost
- 1 1201015558
- 1 18761A1236
- 1 18761A1241
- 1 18761A1250
- 1 18761A1253
- 1 18761F0005
- 1 193N1A0530
- 1 19761A1204

Mute all Unmute all

Unmute Stop video Share Participants Chat

Type here to search

16:25 29-05-2021

## **“Industry Expectation on Data Engineers”**

**Event Type:** Workshop (Online)

**Date / Duration:** 4th – 6th June, 2021, Three days

**Resource Person: Mr. Battu Mahesh Reddy**

**Lead Software Engineer,  
Epam System India.**

**Name of Coordinator(s):** Dr. Satuluri Naganjaneyulu, Professor., Dept. Of IT, LBRCE-Mylavaram.

**Co-Cordinators:** Dr. B. Rama Devi, Associate Professor., Dept. of IT, LBRCE-Mylavaram.

Mr. Annapareddy V N Reddy, Assistant Professor, Dept. of IT, LBRCE-Mylavaram.

**Target Audience:** B.Tech. (Second year & Third year)

**Students Total no of Participants:** Internal – 200 External-55

**Objective of the event:** To extend practical knowledge in Industry Expectation

**Outcome of event:**

At the end of the event students can able to Understand

- Develop, construct, test and maintain architectures
  - Align architecture with business requirements
  - Data acquisition
  - Develop data set processes
  - Use programming language and tools
  - Identify ways to improve data reliability, efficiency and quality
  - Conduct research for industry and business questions
  - Use large data sets to address business issues
  - Deploy sophisticated analytics programs, machine learning and statistical methods
- Prepare data for predictive and prescriptive modelling
- Find hidden patterns using data
- Use data to discover tasks that can be automated
- Deliver updates to stakeholders based on analytics

**Day 1 (04/06/2021):**

Data engineers are responsible for finding trends in data sets and developing algorithms to help make raw data more useful to the enterprise. This IT role

requires a significant set of technical skills, including a deep knowledge of SQL database design and multiple programming languages. But data engineers also need communication skills to work across departments to understand what business leaders want to gain from the company's large datasets.

**Day 2 (05/06/2021):** Next, in day-2 sessions covered the following topics:

According to Dataquest, there are **three main roles** that data engineers can fall into. These include:

- **Generalist:** Generalists are typically found on small teams or in small companies. In this setting, data engineers wear many hats as one of the few “data-focused” people in the company. Generalists are often responsible for every step of the data process, from managing data to analysing it. Dataquest says this is a good role for anyone looking to transition from data science to data engineering, since smaller businesses won't need to worry as much about engineering “for scale.”
- **Pipeline-centric:** Often found in midsize companies, pipeline-centric data engineers work alongside data scientists to help make use of the data they collect. Pipeline-centric data engineers need “in-depth knowledge of distributed systems and computer science,” according to Dataquest.
- **Database-centric:** In larger organizations, where managing the flow of data is a full-time job, data engineers focus on analytics databases. Database-centric data engineers work with data warehouses across multiple databases and are responsible for developing table schemas.

**Day 3 (06/06/2021):** Last day, regular sessions, quiz, feedback and valedictory completed the topics covered in the last sessions include:

The skills on your resume might impact your salary negotiations — in some cases by more than 10 or 15 percent, depending on the skill. According to data from , the following data engineering skills are associated with a significant boost in reported salaries:

- Scala:
- Apache Spark:
- Data warehouse:
- Java:
- Data modelling:
- Apache Hadoop:
- Linux:
- Amazon Web Services (AWS):
- ETL (extra, transform, load):
- Big data analytics:

- Software development:

The screenshot shows a Zoom meeting interface. At the top, a grid of participants is visible, with 'MB' highlighted. The main content is a PowerPoint slide titled 'Lakireddy Bali Reddy College of Engineering (AUTONOMOUS)'. The slide text includes: 'Three days Workshop on Industry Expectation on Data Engineers 04/06/2021 to 06/06/2021', 'By: Mr. Battu Mahesh Reddy, Lead Software Engineer, Epm System India', and 'Organized by Department of Information Technology'. A 'You're muted.' notification is present in the bottom left, and a control bar at the bottom shows 'Mic', 'Camera', 'Screen', and 'Leave' buttons. A 'Take a screenshot' button is on the right.

The screenshot shows a Zoom meeting interface. At the top, a grid of participants is visible, with 'MB' highlighted. The main content is a PowerPoint slide titled 'Real-time Use Cases of Hadoop'. The slide features a central diagram with icons for various sectors: Security & Law, Finance, Government, Retail, Sentiment Analysis, Healthcare, and Advertisements. Below the diagram, the text reads 'Understanding Customers'. A 'You're muted.' notification is present in the bottom left, and a control bar at the bottom shows 'Mic', 'Camera', 'Screen', and 'Leave' buttons. A 'Take a screenshot' button is on the right.

APM	MB	IND	TRK	R	TRH	TRR	SKR	MA	TL	TEH	SR	VNR	T	TA	T	T	18PP
BD	T	TRM	T	T	TBL	ZP	VAL	TK	T	SPG	T	TL	PKR	TL	T	T	T
VA	MC	T	BR	TL	T	VO	T	RR	T	T	TGA	TGD	T	TR	OTTR	TRV	15M
T	TK	TDH	TRP	T	TSS	Z	TEL	TL	AG	N/A	TAT	TC	CKK	T	IV	TR	11Y
ZSL	SN	TMV	TRK	RC	T	T	JT	M	MT	VIT	T	PLS1	TR	SN	UK	R	TS
T	TRK	TV	TRD	T	TRV	SE	TR	PV	DL	T	TRV	TR	T	T	SC	TGA	

AutoSave | INO... | Search | MaheshReddy Battu

File Home Insert Design Transitions Animations Slide Show Review View Help

Clipboard Paste New Route Slide Section Slides

Font Paragraph Drawing Editing Voice Designer

Share D7 Comments

### Analytics

Click to add

Click to add notes

Slide 7 of 9

Take a screen

50%

Take a screenshot icon

Zoom in icon

Zoom out icon

Close icon

MaheshReddy Battu is presenting

Mic

Camera

Screen

Leave

11:21 AM 6/5/2021

## **“WORKSHOP ON BLOCKCHAIN TECHNOLOGY”**

**Event Type:** Workshop (Online)

**Date / Duration:** 17th – 19th June, 2021, Three Days.

**Resource Persons:**

**Sainadh Gupta**, System Engineer, Tata Consultancy Services.

**B.Sunil Kumar**, Chief Operating Officer, Cluster Information Technology, Hyderabad.

**Name of Faculty Coordinator(s):**

Dr. Anupriya Koneru, Assoc. Prof., Dept. of IT, LBRCE-Mylavaram.

Mrs. A. Sarvani, Asst. Prof., Dept. of IT, LBRCE-Mylavaram

Mr. K. Phaneendra, Asst. Prof., Dept. of IT, LBRCE-Mylavaram

Mr. G. Rajendra, Asst. Prof., Dept. of IT, LBRCE-Mylavaram

**Name of Student Coordinator(s):**

U. Maheswar Reddy

B. Jitendra Kumar

R. Priyadarshini

Sk, Masthani

**Target Audience:** 3rd Year IT LBRCE Students and Outside Students

**Total no of Participants: 114**

**Objective of the event:** To disseminate the knowledge of **block chain technology** among students.

**Outcome of event:**

At the end of the event participants can able to

- o To improve knowledge of Blockchain Fundamentals
- o To improve Knowledge on working on Blockchain Technology
- o To improve knowledge on Blockchain Transaction Process

**Day 1 (17/06/2021):**

FDP was inaugurated on 17th June, 2021 by the HOD, Department of IT. All the IT department faculty members, Resource persons and participants attended.



The day started with the welcome speech given by Hod sir, continued the workshop. In Day 1, one session conducted and the following topics covered:

- Blockchain Fundamentals
- Distributed ledger technology. All network participants have access to the distributed ledger and its immutable record of transactions. ...
- Immutable records. No participant can change or tamper with a transaction after it's been recorded to the shared ledger. ...
- Smart contracts.

**Day 2 (18/06/2021):**Next, In Day 2, one session conducted and the following topics covered:

- How does a block and chain work?
- How does blockchain work in simple terms?
- Storage Structure
- Advantages of Block Chain

**Day 3(19/06/2021):** Last day, regular sessions, quiz, feedback and valedictory completed

The topics covered in the last sessions include:

- Transaction Process
- Bitcoin Vs Blockchain

Webex | Meeting Info | Hide Menu Bar ^

File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help

PHANEENDRA ANAKAM... Host, me

Anupriya Koneru Cohost

priyadarshini Cohost

17761A1204

Layout

Participants (115)

Search

PK PHANEENDRA... Host, me

SG Sainadh Gupta Cohost

AK Anupriya Koneru Cohost

DR Dr. B. Srinivasa Rao Cohost

P priyadarshini Cohost

UR Upputuri Maheshwar Reddy Cohost

1 17761A1204

1 18761A0325

1 18761A1208

1 18761A1210

1 18761A1212

Mute all Unmute all

Unmute Start video Share Record

Participants Chat

Type here to search

99% 27°C 10:00 AM 6/17/2021

Webex | Meeting Info | Hide Menu Bar

File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help

PHANEENDRA KANAKAM... Host, me

Sainadh Gupta (Cohost)

Anupriya Koneru Cohost

priyadarshini Cohost

17761A1204

**Distributed database**

**No changes allowed**

**Everyone can add**

You're muted. Unmute yourself to speak.

Source: S

Participants (102)

Search

- PHANEENDRA... Host, me
- Sainadh Gupta Cohost
- Anupriya Koneru Cohost
- priyadarshini Cohost
- Upputuri Maheshwar Reddy Cohost
- 17761A1204
- 18761A1208
- 18761A1219
- 18761A1229
- 18761A1231 kotha Akhil
- 18761A1232-Uday Naveen

Mute all Unmute all

Unmute Start video Share Record

Type here to search

100% 28°C 9:18 AM 6/17/2021

Webex | Meeting Info | Hide Menu Bar

File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help

PHANEENDRA KANAKAM... Host, me

Kaja Diya

Anupriya Koneru Cohost

priyadarshini Cohost

17761A1204

Layout

Sainadh Gupta (Cohost)

Participants (110)

Search

- PHANEENDRA... Host, me
- Sainadh Gupta Cohost
- Anupriya Koneru Cohost
- Dr. B. Srinivasa Rao Cohost
- priyadarshini Cohost
- Upputuri Maheshwar Reddy Cohost
- 17761A1204
- 18761A0325
- 18761A1208
- 18761A1210
- 18761A1212

Mute all Unmute all

Unmute Start video Share Record

Type here to search

100% 27°C 10:05 AM 6/17/2021



**LAKIREDDY BALI REDDY**  
**COLLEGE OF ENGINEERING (AUTONOMOUS)**

Accredited by NAAC & NBA (Under Tier -1) and an ISO  
9001:2005 Certified Institution

*Certificate of Participation*

This is to certify that Mr./Ms..... has actively participated in-3  
Days workshop on "**BLOCKCHAIN TECHNOLOGY**" held on 17<sup>th</sup> -19<sup>th</sup> June  
2021 conducted by "Department of Information Technology" of "**Lakireddy  
Bali Reddy College of Engineering (Autonomous)**", Mylavaram.

*G. Rajendra*

**Mr.G.Rajendra**

Coordinator

*K. Phaneendra*

**Mr.K.Phaneendra**

Coordinator

*Sarvani*

**Mrs.A.Sarvani**

Coordinator

*Anupriya*

**Dr.K.Anupriya**

Coordinator

*B. Srinivasa Rao*

**Dr. B. Srinivasa Rao**

Head of Department



**TECHNOLOGY IS USED  
EVERY DAY  
IN EVERY FIELD  
IN EVERYTHING WE DO!**



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**  
(AUTONOMOUS)

Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India