LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
MYLAVARAM
TRUTH ALWAYS TRIUMPHS
HARD WORK PAYS

TECH ERA

STUDENTS TECHNICAL MAGAZINE

DEPARTMENT OF IT (LBRCE)

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FORE WORD

Department of Information Technology involves researching, designing, developing in current trends of computing systems. It gave me great satisfaction to know that department has come up with its own magazine, "Tech- Era". The way they presented it was unique, very creative and hope it will serve as a motivational and technological source for the students to exhibit their inherent talents and improve their skills. I would like to express my appreciation to whole team members of Tech-Era including faculty coordinators who really made it possible.

Dr. K. APPA RAO
PRINCIPAL

Congratulate the department of IT, LBRCE for bringing out the prestigious bi-annual magazine, Tech-Era. I am sure that the magazine will provide a platform for students and faculty members to expand their technical knowledge and sharpen their hidden literary talent and also strengthen all round development of the students. My congratulations to the editorial board who took the responsibility for the arduous task Dr. B. Srinivasa Rao most effectively.

Dr. B. Srinivasa Rao
Professor & HOD

Vision:

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

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.

UNDERGRADUATE

PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

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

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

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

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

PROGRAM OUTCOMES (POs):

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

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.

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

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.

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

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.

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.

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

Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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.

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.

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

PROGRAM SPECIFIC OUTCOMES (PSOs):

PSO1: Organize, Analyze and interpret the data to extract meaningful conclusions.

PSO2: Design, Implement and evaluate a computer-based system to meet desired needs.

PSO3: 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 and to 120 students in the year 2019. It is the one of the most emerging programmes 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 businessproblems.

The department strives to be a centre for excellence, innovation and research with dedicated faculty, highly motivated students, state-of-the-art facilities and an innovative teaching-learning environment. The department was accredited by the National Board of Accreditation (NBA) for 3 years i.e. 2008 and 2019 (Under Tier-I), valid up to Academic Year: 2021-22. The department has consistently demonstrated its potential for excellent research through sponsored research projects, consultancy work, high-quality scholarly publications, text books, open-source software and other professional contributions. Several research and consultancy projects are also underway as part of various MoUs with reputed industry and academic organizations. Our students have consistently achieved 100% placements and have demonstrated a high level of success in pursuing post graduates at top universities of the world as per QS World University Rankings, like Massachusetts Institute of Technology, Carnegie Mellon University, Yale, Columbia, Purdue and in theIITs&IIMs.

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.

Consolidated Data

S.NO	No of Faculty Articles	No of Department Events
1	41	3

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

The general design of the automation for multiple fields using reinforcement learning algorithm

Radha, Anantha N. Lakshmipathi , Ravi Kumar Tirandasu, Paruchuri Ravi Prakash

Indonesian Journal of Electrical Engineering and Computer Science Vol. 25, No. 1, January 2022, pp. 481~487 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v25.i1.pp481-487

Reinforcement learning is considered as a machine learning technique that is anxious with software agents should behave in particular environment. Reinforcement learning (RL) is a division of deep learning concept that assists you to make best use of some part of the collective return. In this paper evolving reinforcement learning algorithms shows possible to learn a fresh and understable concept by using a graph representation and applying optimization methods from the auto machine learning society. In this observe, we stand for the loss function, it is used to optimize an agent's parameter in excess of its knowledge, as an imputational graph, and use traditional evolution to develop a population of the imputational graphs over a set of uncomplicated guidance environments. These outcomes in gradually better RL algorithms and the exposed algorithms simplify to more multifaceted environments, even though with visual annotations

-Vijaya Kumar Reddy

Recognition of Student Emotions in an OnlineEducation System

Sai Manvitha Enadula, Akshith Sriram Enadula, Rama Devi Burri

International Journal of Advanced Research, Ideas and Innovations in Technology

Online education system was developed due tothe Covid-19 pandemic. The core idea of this paper is to mapthe connection between teaching practices to student learningin an online environment. Face to face evaluation techniquesarefairly quick and easy for formative assessments to checkstudent understanding in existent environment. Prevailing studies illustrate that a person's facial expressions and emotions are closely related. In order to make the teaching learning process more effective, teachers usually collect day today feedback from the students. This feedback can be used to improve teaching skills and make the process more interactive.In a virtual learning mode, there is a need to identify and understand the emotions of people. Constructive information can be extracted from online platforms using facial recognition algorithms. An online course connected with students is used for examination; the results have shown that this technique performs strongly.

-Rama Devi Burri

Real Estate Price Prediction using Ensemble Methods

NidamaneniRajyalakshmi , Sai Pavan Kumar Kokkiri , Chandra Shekar V , Dr. B. Srinivas Rao

ISSN: 2454-132X Impact Factor: 6.078 (Volume 7, Issue 6 - V7I6-1168)

Real estate is one of the popular fields 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 plays 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. Srinivas Rao

Permissioned Healthcare Blockchain System for Securing the EHRs with Privacy Preservation

Katru Rama Rao, Satuluri Naganjaneyulu.

Healthcare data is very sensitive as many healthcare organizations will be very reluctant to share health data. However, sharing the healthcare data is having many more uses for both the patients as well as the research institutions too. Moreover, the existing Electronic Healthcare Record (EHR) management system will be stored in the central database in the form of plaintext. Whenever the data needs to be accessed from the database, the users will be requesting the required EHRs. However, this mechanism possesses the several challenges such as single point of failure, takes more time for user identification, interoperability issues, data recoverability issues, lack of privacy and security. This paper mainly focuses on providing security for the healthcare data, which can be shared among the various health institutions. Authentication and authorization are provided by establishing multiple certification authorities on the permissioned healthcare blockchain network. In this proposed model data integrity is also achieved by the concept of hashing of the electronic health records rather than storing it directly onto the permissioned healthcare block chain network.

-SatuluriNaganjaneyulu

Examination of Diabetes Mellitus for Ahead Of Schedule Expectation Utilizing Ideal Highlights Determination

Proceedings of the Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)
DVD Part Number: CFP21OSV-DVD; ISBN: 978-1-6654-2641-1

Dr.M.Jogendra Kumar , Mr. S.Phani Praveen 2, Mr.Kamalakar Raju Tella, Dr. R .Vijaya Kumar Reddy,Dr.N.Raghavendra Sai

Diabetes is the most common and long-termillness. The anticipation of diabetes in its early stages can lead to a better treatment. In most cases,data preparation processes are used to predict infection in the early stages. Diabetes is predicted using key credits in this investigation study, and the relationship between the several ascribes is also described. Different instruments are used to determine high-quality decisions, as well as for diabetes bunching, forecasting, and rule digging.The chief segment investigation strategy was used to make the decision. There are many diabetes prediction systems right now in the market with different implementations of ML algorithms. Despite, the best accurate diabetes prediction system available now is only 75.7% by utilizing the logistic regression model. As accuracy is a very important aspect particularly in health care since any wrong prediction leads to severe damage in terms of patients health. An accurate system for diabetes prediction is proposed in this project. This research work considers six machine learning algorithms. After comparing their results and accuracy, the best accurate one will be selected.

-Dr.R .Vijaya Kumar Reddy

Machine learning based outlier detection for medical data.

R. Vijaya Kumar Reddy, Shaik Subhani, B. Srinivasa Rao, N. Lakshmipathi Anantha

Indonesian Journal of Electrical Engineering and Computer Science Vol. 24, No. 1, October 2021, pp. 564~569 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v24.i1.ppa564-569

The concept of machine learning generate best results in health care data, it also reduce the work load of health care industry. This algorithm potentially overcome the issues and find out the novel knowledge for development of medical date in health care industry. In this paper propose a new algorithm for finding the outliers using different datasets. Considering that medical data are analytic of mutually health problems and an activity. The proposed algorithm is working based on supervised and unsupervised learning. This algorithm detects the outliers in medical data. The effectiveness of local and global data factor for outlier detection for medical data in real time. Whatever, the model used in this scenario from their training and testing of medical data. The cleaning process based on the complete attributes of dataset of similarity operations. Experiments are conducted in built in various medical datasets. The statistical outcome describe that the machine learning based outlier finding algorithm given that best accurateness.

B. Srinivasa Rao
R. Vijaya Kumar Reddy

PREDICTION OF MISSING CHILD USING MACHINE LEARNING

Vidyabharati International Interdisciplinary Research Journal ISSN: 2319-4979

B. *R. Devi, Ch. S. Sudha Sri , B. Akhila and Md. M. Asma*

Special Issue on Multidisciplinary Academic Research in Current Era (October – December 2021)

Every year, a huge number of children are missing in India. The number of missing cases is untraced. This paper proposes an innovative usage of machine learning techniques for the identification of the missing children. The Public can take the photograph of the suspicious child and upload in the common portal by specifying their location and contact information.The uploaded image was automatically compared to the recorded images of the missing child in the database. The supervisor stores the details of the missing child in the repository with the details of the child. Classification is carried out with input image and the best match is chosen from a registry of missing children.A predictive model is trained to recognise the missing child from the repository. When the input image is matched with the photographs in the database the information of the child and the person will be reported to the appropriate officer to take necessary action. The Open Cv 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.Rama Devi Burri

Using QRE-based Game Model for better IDS

Dr.M.Jogendra Kumar, Dr B Srinivasa Rao , Dr.N.Raghavendra Sai , Mr.S.Sandeep Kumar

Proceedings of the Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)

DVD Part Number: CFP21OSV-DVD; ISBN: 978-1-6654-2641-1

WSN is a large-scale ad hoc network with the property of sufficient accessibility, including the all extents of correspondence applications, similar to medical care, home computerization, far off perceptions, snags recognition, and so forth WSN comprises of gigantic measure of small actuators, situated on better places which have minimal expense and simple establishment with limitations of restricted energy assets, computational limit and memory size. WSN is presented to numerous security dangers because of its restrictions, broadcast nature and unattended climate. Numerous distribut ions have proposed various IDS plans to effectively safeguard WSNs against security dangers. To conquer this issue, the proposed paper examines distinctive proposed IDS systems and analyzes them to survey the effectiveness from their qualities and shortcomings. In this paper, obstruction affirmation structure is masterminded and executed utilizing game hypothesis and AI to perceive various assaults. Game theory is organized and used to apply the IDS ideally in WSN. The game model is organized by depicting the players and the differentiating frameworks. QRE considered game hypothesis is utilized to pick the systems in ideal manner for the impedance's region. Further, these obstructions are assigned disavowing of association assault, rank assault or express sending assaults utilizing oversaw AI procedure subject as far as possible and rules. Results show that the entirety of the assaults are seen with commendable region rate and the proposed approach gives ideal utilization of IDS.

Dr B Srinivasa Rao

Predicting The Emotions Based on Emoji's and Speech Using Machine Learning Techniques

Dr K. Lavanya, Ch.Lalitha Devi, M.Divya Sree, P.Nagul Shareef

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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 get angry, sad, happy based on the dialogues and behavior of the opposite person. In this work, we have a tendency to square measure aiming to predict the emotions supported the audio files. At first the dataset encompass 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'll be a revered 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

Using DWT-DCT-SVD Watermarking For Securing Medical Images

Dr.M.Jogendra Kumar , Dr.N.Raghavendra Sai , Dr R Vijaya Kumar Reddy
Mr.T. Ravi Kumar, Mr.A.Pavan Kumar

978-1-6654-3368-6/21/$31.00 2021 IEEE Proceedings of the Second International Conference on Smart Electronics and Communication (ICOSEC). DVD Part Number: CFP21V90-DVD; ISBN: 978-16654-3367-9Indonesian Journal of Electrical Engineering and Computer Science Vol. 25, No. 1, January 2022, pp. 481~487 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v25.i1.pp481-487

Telemedicine is an advanced digital application in which a huge volume of clinical information must be transmitted safely and productively throughout the business. The security of advanced information, particularly clinical images become critical for few reasons including privacy, authentication, and integrity. Computerized watermarking is a cutting-edge invention that has been developed to increase the security of advanced images. The use of a watermark in clinical images can help to validate and respect the image. Watermark should be covered in general; it does not affect the nature of the clinical image. This article proposes an advanced watermark dependent on discrete wave transform (DWT), discrete cosine transform (DCT), and SVD, contrast the exposure of this strategy and the DWT and SVD based on the watermark. The proposed DWT, DCT and SVD strategy is relatively better than the DWT and SVD technique.

-Dr R Vijaya Kumar Reddy

Student Articles submitted as Mini projects by (III Year) batch students for partial fulfillment of Under Graduation B.Tech Degree

Social Distancing Detection Using Deep Learning

Md.Inzamam(19761A1228), E.Sravya(19761A1214), L.Harshada(18761A1233)

The paper presents a methodology for social distancing detection using deep learning to evaluate the distance between people to mitigate the impact of this coronavirus pandemic. The detection tool was developed to alert people to maintain a safe distance with each other by evaluating a video feed. The video frame from the camera was used as input, and the open-source object detection pre-trained model based on the YOLOV3 algorithm was employed for pedestrian detection. Later, the video frame was transformed into top-down view for distance measurement from the 2D plane. The distance between people can be estimated and any noncompliant pair of people in the display will be indicated with a red frame and red line. The proposed method was validated on a pre-recorded video of pedestrians walking on the street. The result shows that the proposed method is able to determine the social distancing measures between multiple people in the video. The developed technique can be further developed as a detection tool in realtime application.

-Mr.Ch.P.V.Srinivasa Rao

Smart Service Management System

N. V. Prasad(19761A1233), P. Hema Harini(19761A12), T. Kaupa Sandhya(19761A12)

In General ,we use several web applications like Just Dial Urban Clap, etc for getting the service into our home. we can easily find a solution for our internal home issues. we can avail all types of services from these web application like mason, gardener, drivers, maids ,electricians etc. and it is now mostly used for reducing our time and it works as a one stop solution for all your daily needs. But it has some flaws like no updations of active and inactive servicemens, Locality search sometime shows far distanceservicemens ,no best deals for the user .In this project, we away will focus on this issue mainly updations, Locality search near distances, and also great deals, which benefit to the user

-Mr.K.Phaneendra

Online Table Reservation For Restaurants With Pre-Ordering

V K.Lakshmi Meghana (19761A1224) ch. Aoun Rooi kanth (19761A1410) . Ajendra Reddy (1976141219)

Online Table Reservation System is a Web-based Solution for Restaurant's Pre-Ordering module; automation and a digitalization of table reservation process along with pre ordering of food. This Website would allow restaurants to increase the scope of business and save a lot of time with table reservations. The Website also makes it possible to quickly and easily control an online menu that customers can search and use with only a few clicks to place orders. The table will be reserved on the appropriate time-slot so that users do not face inconvenience.

Disease Prediction Using Machinelearning

D.Chetana varsha-[19761A1212] ,B. Deepthi Priya - [19761A1208] K. Manjusha [19761A1217]
M. Abhinaya - [19761A1226]

Now-a-days, people face various diseases due to the environmental condition and their living habits. So the prediction of disease at earlier stage becomes important task. Prediction of disease has become a challenging task. Health industry plays a major role in curing diseases but now days the expenses of health industry are touching the sky's so more than half of the population isn't able to afford proper health care. Through this project we wanted to create an user interface where patients can browse their existing symptoms and get a detailed analysis about the diseases that might occur and seriousness of the disease. The disease prediction is completely done with the help of machine learning and python programming language with tinker interface and also using the hospitals datasets.

-Mrs.J. Geetha Renuka

Price Comparison Website For Online Shopping

K. Ramya sri (1976 (A(220),A. Greeshma (1976LA (2001),P. Revanth (19761A1240)

In today's world where most of us depend on buying products online, it takes a lot of manual effort to find out on which website the price tag is lowest.So what most of us do is go to one of the most popular websites and buy those products. What if we could easily develop a price comparison tool that can compare the prices from different websites and can then show any user the optimal prices and associated information about that product from different websites in a single place. so the main moto of our project is to create a website where the user can easily compare prices. The scope and objective of our project is t develop a price comparision website to satisfy the customer needs.

-Mrs. M. Hemalatha.

Sign Language Recognition using Machine Learning

19761A1263-Y.Yamini Snehitha 19761A1247-N.Sai Priya -. 20765A1204-N.Venkata Prasad -
20765A1206-SK.Anwar Pasha

A Sign Language is one of the way to communicate with deaf people. In this work sets, included features and variation in the language with locality have been the major barriers which hasled to little research being done in ISL. One should learn sign language to interact with them. Learning usually takes place in peer groups. There are very few study materials available for sign learning. Because of this, the process of learning sign language learning is a very difficult task. Most of the existing tools for sign language learning use external sensors which are costly. Our project aims at extending a step forward in this field by collecting a dataset and then use various feature extraction techniques to extract useful information which is then input into various supervised learning techniques.In this sign language recognition project, we create a sign detector, which detects numbers, hand gestures including the alphabets. This can be very helpful for the deaf and dumb people in communicating with others as knowing sign language is not something that is common to all.

-Dr.R.Vijay Kumar Reddy

Face Mask Detection Using Ai

K. Kiran Kumar (19761A 1223),A.Bhuvanesh (19761A1234),Sk.Mastani (19761A1252)

Since the COVID-19 pandemic has rapidly affected our day-to-day life. To control the spread of virus. It had been found that wearing face masks is 96 % effective to stop the spread of virus. The government, all over the world, has imposed strict rules that everyone should wear masks. But still, some people may not wear masks and it is hard to check whether someone is wearing mask or not. In such cases, our project will be of great help, it is used to detect whether a person is wearing a mask or not. If the person is not wearing mask on his face, then it indicates an alert with red box format. It reduces the human effort. To make the project simple we are proposing new feature like gender detection, it is helpful during sorting of the list.

-Mr.V.V. R. MANOJ

Banking Bot

K. Prema Latha P. Teja

Banking bots are a robots which perform the bank agents tasks in a online mode. For any banking related queries we have to go to the bank or call to customer care. It takes lot of time and effort and bank people are also very busy to attend our queries. On the other hand we don't get complete information from the customer care executives. It will be more suitable if we can directly post our queries online or chat with the bank people and get the response with no time. To overcome this problem we proposed banking bot where people can directly chat with the bot .The main aim of this project is to develop a banking bot using artificial intelligent algorithms which should be able to analyze and understand user's queries and react accordingly The system is designed banks users where users can ask any bank related questions like loan, account, policy etc. This application is developed for web users. The system recognizes user's query and understands what he wants to convey and simultaneously answers them appropriately It also uses a graphical representation of a person speaking while giving answers as a real person would do. The system also consists of ATM finder and Branch locator systems for other bank related help. A chat bot is a "simple software program that can respond to customer prompts i.e. what's my bank balance"

-Dr.s. Naganjaneyulu

Currency Recognition System Using Deep Learning

A Bhavana(19761A1502) G Sai Preya (19761A1216) PLalitha (19761A1244) D.Manikanta Reddy (19761A1513) D.Hanikanta

They are many currencies across the world, each of them looking totally different. So, it becomes difficult for the people to recognize currencies of different countries. To overcome this difficulty, many currency recognition techniques have been proposed by many researchers. One of the existing systems used image processing techniques for currency recognition. But this existing system has many drawbacks like light conditions. decrease in recognition rate if currency note is damaged. Another existing system used Hidden Markov Model to recognize the currency. They have used texture-based features for currency recognition. But in this system, the accuracy is 95% only. So, here accuracy can be improved by using efficient pre-processing and feature extraction methods. Another existing system proposed currency recognition technique using Artificial Neural Networks(ANN). Here the features of currency are extracted using Canny Edge Histogram and GLCM .But this system is designed to recognize only four different currencies. To overcome the drawbacks, present in existing systems, we propose a system for currency recognition using Deep Learning Technology. Our proposed system mainly uses Transfer Learning (mobile net) model as a framework, CNN model to extract the features of currency. Our proposed system recognises the country name of given currency more accurately. Our proposed system is simple and less time consuming. Our proposed system provides average accuracy up to 99%

-Dr k Lavanya

Music Recommender System

S. Lavanya (19761A1250) K. Haritha (19761A1223) MD. Sadhak (19761A1229) M. S. S. Krishna Reddy (19761A1230)

The face is an important aspect in predicting human emotions and mood. Usually, the human emotions are extracted with the help of camera. There are many applications getting developed based on detection of burnan emotions. Few applications of emotion detection are business notifications recommendation, e-learning, mental disorders, depression detection and criminal behaviour detection etc. In this proposed system, a prototype of dynamic music recommendation system based on human emotions will be develop. Based on each human listening pattern, the songs for each emotion are trained using machine learning algorithms. Extract the emotions from the input face images by applying feature extraction and classification algorithms. Once the emotion is derived, respective songs for specific emotion would be suggest to hold the users. In this approach, the datasets get connected with human emotions thus giving personal touch to the users. Therefore our proposed system, concentrate on identifying the human feelings for developing emotion based music recommender system using computer vision and machine learning techniques. In this proposed system, CNN (Convolutional Neural Networks) is used for face and emotion detection and PCA (Principal Component Analysis) for feature extraction.

-Dr. K. Anupriya

Handwritten Character Recognition with Neural Networks

P.Maheswari(19761A1239) ,K.Harish Reddy(19761A1221) ,Sk.Abdul Riyaz(19761A1251) V.Vijaya Lakshmi(19761A12621

In today's world advancement in sophisticated scientific techniques is pushing further the limits of human outreach in various fields of technology. One such field is the field of character recognition commonly known as OCR (Optical Character Recognition). In this fast paced world there is an immense urge for the digitalization of printed documents and documentation of information directly in digital form. Due to increased usage of digital technologies in all sectors and in almost all day-to-day activities to store and pass information, Handwriting character recognition has become a popular subject of research, Handwriting remains relevant, but people still want to have Handwriting copies converted into electronic copies that can be communicated and stored electronically. Handwriting character recognition refers to the computer's ability to detect and interpret intelligible Handwriting input from Handwriting sources such as touch screens, photographs, paper documents, and other sources. Handwriting characters remain complex since different individuals have different handwriting styles. This paper aims to report the development of a Handwriting character recognition system that will be used to read students and lectures Handwriting notes. The development is based on an artificial neural network, which is a field of study in artificial intelligence. Different techniques and methods are used to develop a Handwriting character recognition system. However, few of them focus on neural networks. The use of neural networks for recognizing Handwriting characters is more efficient and robust neu compared with other computing techniques. The paper also outlines the methodology, design. and architecture of the Handwriting character recognition system and testing and results of the system development. The aim is to demonstrate the effectiveness of neural networks for Handwriting character recognition.

-Mr.Ch.Sambasiva Rao

Student Grade Prediction Using Machine Learning

[1976141209] ch-Lahari T.Kiranmai [19761A1257] T P.Firoz khan [1976/412417]

Student Grade Analysis Prediction helps us to change the data into information which can help the teachers to understand the performance of the students easily. So we propose the student grade analysis prediction using machine learning techniques. The main objective of this project is to predict the final grade of the students. "Given a dataset containing features of students by using the features available from dataset and define classification algorithms to identify whether the student performs good in final grade exam, also to evaluate different machine learning models on the dataset Random Forest.Linear Regression and other algorithms are used in our project Random Forest is a combination of several decision trees.so it has highest accuracy when compared with other algorithms in machine learning techniques.

-Mr.S.Praveen Kumar

Fake Product Review Monitoring Using opinion Mining

Y.Nikhil Sai(19761A1264),Sk.Shaziya(19761A1254) V.VamsiSai Manohar(19761A1260) D.Rosi Reddy (20765A1202)

Product reviews play an important role in deciding the sale of a particular product on the ecommerce websites or applications like Flipkart, Amazon, Snapdeal, etc. In this, we propose a framework to detect fake product reviews or spam reviews by using Opinion Mining. The Opinion mining is also known as Sentiment Analysis. In sentiment analysis, we try to figure out the opinion of a customer through a piece of text.Customer goes to online store, search the item of his/her need and place the order.Customer place the order only by looking at the rating and by reading the reviews related to the particular product. Such comments of other people are the source of satisfaction for the new product buyer. Here, it may be possible that the single negative review changes the angle of the customer not to buy that product. We first take the review and check if the review is related to the specific product with the help of Decision tree Ingeneral the reviews can be classified as genuine or fake review. We use Spam dictionary to identify the spam words in the reviews. In Text Mining we apply several algorithms and on the basis of these algorithms we get the specific results.

-**Mr. V.V. Krishna Reddy**.

Telecom Churn Prediction Using Machine Learning

A.Bindu Sai(19761A1203). B.Lekha Sri 19761A1207) V.Tharun(19761A1258) M.Surya Tejaswini (19761A1227)

Customer churn is a major problem and one of the most important concerns for large companies. Churn of the customers may lead many consequences. Due to the direct effect on the revenues of the companies, especially in the telecom field, companies are seeking to develop means to predict potential customer to churn. Therefore, finding factors that increase customer churn is important to take necessary actions to reduce this churn. The main contribution of our work is to develop a churn prediction model which assists telecom operators to predict customers who are most likely subject to churn. The model developed in this work uses machine learning techniques, we predict which customer more likely to switch to a competitor in future. The analysis process was carried out by applying machine learning methods such as Logistic Regression, K-Nearest Neighbor, Decision Trees, Random Forest, AdaBoost and Naive Bayes methods on the relevant datasets.

-Mr.K. Rajasekhar

Organ Donation - An Android Application

K.Maneesha(19761A1222)D.Abhishek(19761A1211)B.Pavan Kumar(19761a1206) Sk.Riyaz (19761A1253)

Organ donation as we all know is a good cause and can save many lives but in a developing country like India it is still not that popular. Although, the rate of donation has been increasing from the past few years but it is still not enough as only 0.01% of people donate their organs after death. The main reason is lack of awareness and this android application is to create awareness among people. This Android application aims at linking the donors or wanting to be donors to the seekers. The donors and the seekers will register through the app by filling the details about themselves and by uploading their medical reports. The donor will have to upload the donor card as well. The phone number will be verified by One Time Password (OTP). All the data is being stored in the Database. Our application mainly fulfils the purpose of urgency of an organ when required by the patient and puts all the functionality and connection between our donor and recipient.

-Mr.G.Rajendra

College Information Chatbot System

Nindhu Mathp,Santhosh Reddy,Yaswanth Reddy

Nowadays, many people are using smartphone with many new applications i.e. technology is growing day by day. Today Artificial Intelligence is playing a major role in a variety of fields ranging from industries in product manufacturing, to customer care in public relations. As there are many online Artificial Intelligence (AI) systems or chat bots which are in existence that help people solve their problems. So, we are going to implementa virtual assistant based on Al that can solve any college related query. This will work as a College Oriented Intelligence machine. This virtual machine will respond the queries of students on college related issues. A chat bot has information stored in its database to identify the sentences and making a decision itself as response to answer a ven ion. The college enquiry chat bot will be built using algorithm that analyses queries and understand users message.

-Dr.B. Srinivasa Rao

Virtual Assistant

19761A1237-P MANOBHIRAM - A1262 VSIVA - 1203-I. ANIL KUMAR- I

Virtual Assistant is one of the most used modern-day applications of artificial intelligence. The virtual assistants receive commands from the users via speech and the text. Virtual Assistantwill analyse the commands and act accordingly to give the expected output. All areaware of popular virtual assistants like Google assistant, Siri, Alexa, Cortana etc. This project adds few additional features like SOS option that is lack in popular virtual assistants. This virtual assistant is designed to perform daily routine activities like, answering the questions given by user through web browsing, inter-device activities like setting alarms, managing phone calls etc.

Mrs. A.Sarvani

College Forum

AKavya(19761A1201)A-kanya.P.Veenadhari(19761A1243)
R.Priyadarshini(19761A1246)S.Swathi(19761A1248)

find so many online discussion forums on the internet related to technical non chnical general knowledge and so many other categories. Having an online discussion forum thin an organization (Ex:Engineering College) will be very useful to all members in various aspects. With this idea,we are going to develop a "Department Forum" which will help all teaching non-teaching staff and all students to help them to resolve their queries. The main Objective and Scope of our project is to provide a platform for students to get accurate and correct answers for their queries from Seniors,Faculty,Alumni,even from the fellow students, regarding anything about their Department.It will also helps and useful to faculty and alumni in various ways.

Mr. K.Rajasekhar

Imbalance Reduction between Datasets- Early Childhood Obesity

J..S Aasritha M.pushpa (A3)G. Mohon Krishna (77) - GGananeswar Sai (85)

Many real-world machine learning applications require building models using highly imbalanced datasets. Usually, in medical datasets, the healthy patients or samples are dominant, making them the majority class, while the sick patients are few, making them the minority class. Researchers have proposed numerous machine learning methods to predict medical diagnosis. Still, the class imbalance problem makes it difficult for classifiers to adequately learn and distinguish between classes. Obesity is a complex disease involving an excessive amount the minority and majority of body fat, that is responsible for many associated health risks and is rapidly increasing middle income countries .In prediction of obesity using the data sets leads to imbalance of the data Class imbalance existing in datasets is a dire issue that can result the predictions of obesity to be biased towards the majority class - thus reducing the reliability of machine learning models. Considering the associated risks of obesity a decrease in recall can result in life threatening consequences. In order to tackle this problem, a cost-sensitive learning have been applied on the dataset. Our results demonstrate that this proposed approach has successfully improved the reliability. of the previous ML models to predict obesity among patients.

-Dr. K. Lavanya

Automated and Efficient power management

G.Dedeepya(19761A1278),N.Sai Sasank (19761A12A5),P.Prasanth kumar(19761A12A6),
N.Vishnu Sai,(2065A1209)

Each day electricity plays a key role in keeping homes, colleges and business running smoothly. Due to excessive use of electricity, reserve running low which leads to power shortage. Since most of universities and the companies still utilize the conventional power control equipment manually by turning equipment on or off. So in this case it is not always possible to off all the time inside room when power not in use. This study proposes an automatic power management system that makes each equipment inside the room to automatically turn itself off when the room is unoccupied. this study is significant when it comes to reducing power consumption ,its success will provide an automated approach in a power management system through means of using sensors, image processing as well as remote switch which can be implemented not only for a class room nut other places with similar setups as well .

-Mr.K.VenuGopal.

Vehicle Count Prediction Using Machine Learning

B. Sri Sowmya(19761A1268), V. Charitha Sri(19761A12C1)G. Sivakrishna(19761A1282)
S. Tejas(20765A1210)

Rapidly developing cities with increasing population mobility has led to exponential increase of on-road vehicles. Predictions are based on historical data collected from daily newspapers. Different techniques like random forest regressor, ARIMA, naïve bayes have been used to make the predictions These predictions are then evaluated and compared in order to find those which provide the best performances. The main objective of this project is to apply different Machine Learning Algorithms to predict the count of vehicles passed at particular junction.ML is becoming an essential player in a growing rray of process areas involving image recognition, natural language processing, forecasting, prediction, and process optimization.

-Dr. B.Rama devi

Smart Doorbell System Using IOT

R Vaishnavi (19761A12B0)P.yugala(19761A12A8) T.Keerthi (19761A12B7-
Ch sandhyarani(19761A1275)

Security has always been an important issue in the home or office. A remote home security system offers many more benefits apart from keeping home owners, and their property.safe from outsiders. The system is composed of the Doorbell interfaced with Raspberry pi,whoever press the doorbell, the camera gets triggered and capture their face and it checking for their face with its database which already has registered faces, if it is an authorized person door will open, otherwise it sends an OTP along with their photograph of the outsider to server mail. If the owner accept that person,the OTP will display on the sensor screen. Only when non authorized person entered that OTP, that face gets added to the authorized person's database to open the door.

-Mr.K.Phaneendra

Fake News Detection Using Machine Learning

G.Sai Nandini(19761A1283),D.Rushika Shreya (19761A1276) ,K. Jaya Lakshmi(19761A1291)
T. Navya Chandrika(19761A12C0)

The phenomenon of Fake news is experiencing a rapid and growing progress with the evolution of the means of communication and Social media. Fake news detection is an emerging research area which is gaining big interest. It faces however some challenges due to the limited resources such as datasets and processing and analysing techniques. In this work, we propose a system for Fake news detection that uses machine learning techniques. We used term frequency-inverse document frequency (TF-IDF) of bag of words and n-grams as feature extraction technique, and Support Vector Machine (SVM) as a classifier. We propose also a dataset of fake and true news to train the proposed system. Obtained results show the efficiency of the system. In this work, we propose a system for Fake news detection that uses machine learning techniques. We used term frequency-inverse document frequency (IF-IDF) of bag of words and n-grams as feature extraction technique, and Support Vector Machine (SVM) as a classifier. We propose also a dataset of fake and true news system. Obtained results show the efficiency of the system. train the proposed

-Dr.R. Vijay Kumar Reddy

KISAN SAHAY

M.Swathi (19761A1299) K.Sudarsan(19761A1292) M.Priyanka(19761A12A0) ,K.Manoj
Kumar(19761A1290), Ch.Karthik(19761A1271)

Agricultural Development is one of the most talked about issues as major portion still engaged with the agricultural industry. Some of the major issues related to these agricultural development are soil erosion, unavailability if machines production costs and environmental related problems. Among the problems encountered regarding the usage of agricultural machinery the usage of agricultural machinery high cost of equipment ranked first. Other main problem encountered are unavailability of machine locality. Small farmers may not have the capability for buying machines with high quality focusing on improving the quality of life of marginal farmers with small land holdings by helping them to increase their earnings ,crops yields and cultivated areas. Here not only buying the machine but they can also share their machines with one another. Totally "KISAN SAHAY" is a platform where farmers can Rent-Buy-Share- Earn money from machines.

-Mr.G.Rajendra

Hand Written Text Recognition

N-Haritha (As) ,G. Akanksha (56) B.-Aparna (70) ,y. Chaithanya (LE 12)

Handwriting Recognition is a technique or ability of a Computer to receive and interpret intelligible handwritten input from source such as paper documents,photographs etc. Handwritten Text recognition is one of area pattern recognition. Handwriting recognition is defined as the task of transforming a language represented in its spatial form of graphical marks into its symbolic representation. The goal of handwriting is to identify input characters or image correctly then analyzed to many automated process systems. This system will be applied to detect the writings of different format. The development of handwriting is more sophisticated, which is found various kinds of handwritten character such as digit, numeral, cursive script, symbols. The automatic recognition of handwritten text can be extremely useful in many applications where it is necessary to process large volumes of handwritten data, such as recognition of addresses and postcodes on envelopes, interpretation of amounts on bank checks, document analysis, and verification of signatures. Therefore, computer is needed to be able to read document or data for ease of document processing. To detect the writings of different formats we use CNN and RNN algorithms and gtts module is used to convert digital text to audio format.

-Dr. Satuluri Naganjaneyulu

Assistance To Paralytic Patient Through Hand Gestures Using IOT

Akhila Kakani (19761A1289) (19761A1267) Lavanya Pamarthi ,Uday Kiran (19761A12A7)
Kommu Sujith Kumar (1976141295

This project aims an automatic healthcare system where the system able to help and facilitates the paralysis patient to complete their daily life. When a patient suffers from a paralysisattackthey can barely communicate with anyone because they are unable to speak like a normal person. It will be hard for medical staff to understand what they want to convey and in helping them to manage their daily needs such as eating, drinking, bathing and etc. By developing this project, the health officer can assist the paralyzed patient when they are alerted by the message from patient hand movements. There are several instructionof movement gesture sensor presented in this project in order to assist health officer in helping the paralyzed patient to complete their needs. Whenever the patient gives the simple hand movement instruction, then it will be delivered through SMS and the alerted notice will be display on notification board to alert the health officer.

-Mr. K. RAJASEKHAR

Time Table Generator

M. R. Satya Sri Prasanna (19761A1297) S. Sai Kumar(19761A12B6) Sk. Shaheeda(19761A12B4)
Ch. Sai Kumar(19761A1272)

Timetable creation is a very arduous and time consuming task. To create timetable it takes lots of patience and man hours. Time table is created for various purposes like to organize lectures in school and colleges, to create timing charts for train and bus schedule and many more. To create timetable it requires lots of time and man power. in our paper we have tried to reduce these difficulties of generating timetable by Genetics Algorithm. By using Genetic algorithm we are able to reduce the time require to generate time table and generate a timetable which is more accurate, precise and free of human errors. The first phase contains the commo compulsory classes of the institute, which are scheduled by a central team. The second phase contains the individual departmental classes. Presently this timetable is prepared manually. by manipulating those of earlier years, with the only aim of producing a feasible timetable.

-Mr.Sk. Saida

Ecommerce on Dharmavaram Saree s - AP Heritage

19761A1296 M. Kreshnaa, 19761A12A2 M. David, 19761A12C6 V. Akash, IT B-sec 19761A1280
G. Raviteja,

Dharmavaram is a small village in Anantapur dist. Dharmavaram handloom pattern sarees are textiles woven by hand with mulberry silk and zari. They don't have any website to sell their sarees, so, we are providing an website. By these website the shopkeepers can access this website and put their product in these website. Customers can login and buy the Dharmavaram sarees. By providing these website to Dharmavaram people they can easily promote and sell their product through online.

-Dr. B. Srinivasa Rao.

Voice Control Home Automation Using Bluetooth and Arduino

Ch.chandrasekhar(19761A1274) V.Teja Sai sri(19761A12C2) -
B.Vamsi(19761A1269) B. Van Kvamsi(19761A1294)

This project builds a system that can remotely control on and off multiple power sockets in different rooms, each with corresponding voice command, thus conveniently manage different electric equipment by voice. The project verifications are met and design goal is successfully achieved, however noise and distance handling may need future development In this project we integrate home appliances with smartphone via Bluetooth technology.so that we can easily control home appliances fully based on mobile phone through voice commands In order to achieve this, a Bluetooth module is interfaced to the Arduino board at the receiver end while on the transmitted end, A GUI application on the cell phone sends ON/OFF commands to the receiver where loads are connected. By touching the specified location on the GUI the loads can be turned ON/OFF remotely through this technology. Presently, conventional wall switches located indifferent parts of the house make it difficult for the user to go near them to operate. Even more it becomes more difficult for the elderly or physically handicapped people to so. Remote controlled home automation system provides a most modern solution with smart phones.

-Mrs.A.Sarvani

Breast Cancer Prediction

S. Keerthi (19761A12B5) T. Anusha(19761A12B9),A. S. Ajaybabu(19761A1266) A S-Ala
K.Manoj Kumar(19761A1293)

The classification of breast cancer patients is of great importance in cancer diagnosis. Most classical cancer classification methods are clinical-based and have limited diagnostic ability. The recent advances in machine learning technique has made a great impact in cancer diagnosis. In this research, we develop a new algorithm: Kernel-Based Naive Bayes (KBNB) to classify breast cancer tumor based on memography data. The performance of the proposed algorithm is compared with that of classical navie bayes algorithm and kernel-based decision tree algorithm C4.5. The proposed algorithm is found to outperform in the both cases. We recommend the proposed algorithm could be used as a tool to classify the breast patient for early cancer diagnosis.

-Dr. AVN Reddy

Cartoonify An Image With OpenCV in Python

V.Naga Bindu Sri(19761A12C7)(19761A12B8) T.Nikitha.Naga Asritha (19761A1265)
S.Varshitha(20765A1211)

Cartoonify an image with OpenCV in python is a project in which we will build apython application that will transform an image into its cartoon using OpenCV library. In this project we will use OpenCV which is a cross platform library used for computer vision. The main steps involved in this project are importing required modules, building a file box to choose a particular file, image storing, transforming an image to gray scale ,preparing mask image ,giving cartoon effect. This project will help us to make animation of images and to get detailed picture of OpenCV library.

- Mr.V.V.Krishna Reddy

Admission Prediction

19761A12C5(V.Nanda Gopal)19761A1273(Ch.Manjusha) b19761A12B3(Sk.Nazeer)
20765A1207(B.Rohith)

In India every year lakhs of students getting the graduation degree and willing to join post-graduation in other countries. Newly graduate students usually are not knowledgeable of the requirements and the procedures of the postgraduate admission and might spent a considerable amount of money to get advice from consultancy organizations to help them identify their admission chances Human consultant and calculations might be bias and inaccurate. Then this project helps on predicting the eligibility of Indian students getting admission in best university based their Test attributes like on GRE,TOFEL,CGPA etc., according to their scores the possibilities of chance of admit is calculated.

-Dr.K.Anupriya

Crop Price in Web Portal

19761A1281 (G.Likhitha) G Likhi tha 19761A1298(M.Krishnaveni M-kult 19761A1287(G. Jahnavi Reddy) 4 19761A12C8(Y. Harika) Harika

As the population increases the demand for needs also increases so usually the highest demand goes to the food that our grown by farmers. First and foremostly farmers require a justice for their grown crop.For this they need to be aware of crop prices that are beneficial to them. So we proposed an idea of introducing a new web portal in which we provide a general description of price determination so that it becomes easy for farmers to sell their respective crops at the favourable prices. In the existing system the prices of each respective crop is displayed or announced manually in the market itself.In our proposed system we are creating a webportal consist of the rates of each crop locality and availability that helps a farmer to estimate the prices among different markets and crops

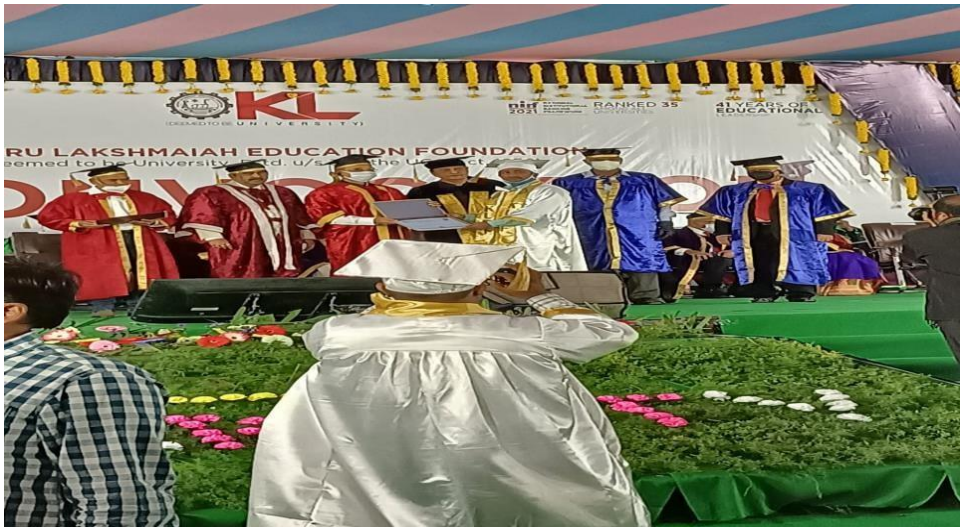
-Mrs.S.Jyothi

Newly Joined Faculty list:

S. No	Name	Designation	Highest Qualification
1	Dr. R. Vijaya Kumar Reddy	Associate Professor	Ph.D
2	VenuGopal Kavuluru	Sr. Assistant Professor	M.Tech
3	Saddi Jyothi	Associate Professor	Ph.D
4	S Praveen Kumar	Sr. Assistant Professor	M.Tech
5	Ch.P.V.SrinivasaRao	Assistant Professor	M.Tech
6	Mr. Shake Saida	Assistant Professor	M.Tech
7	Venkata Ram Manoj V	Assistant Professor	M.Tech
8	GeethaRenuka Jalluri	Assistant Professor	M.Tech
9	D.VijayaSri	Assistant Professor	M.Tech

Ph. D awarded / Thesis Submitted:

Name of the Faculty	Title of Thesis	Name of the University	Nam of the Supervisor and University	Date of Submission/ Award
Mr.Annapareddy VN Reddy	Classification of Brain Diseases Through Medical Image Processing Using Machine Learning Techniques	KL University	Dr. Ch.Phani Krishna	02.11.2021



NPTEL Faculty Certifications:

S.No	Name of the Faculty	Name of the Course	Grade	Toppers
1	Dr B.Srinivasa Rao	The Joy of Computing using Python	Elite+Sliver	
2	Dr K.Anupriya	Introduction to Algorithms & Analysis	Elite+Sliver	
3	Dr K.Lavanya	Introduction to Algorithms & Analysis	Elite	
4	Mrs. M.Hemalatha	Learning Analytics Tools	Elite	
5	Mr.K.Phaneendra	Big Data Computing	Elite+Sliver	
6	Mr.G.Rajendra	Big Data Computing	Successfully Completed	
7	Mrs. J.Geetha Renuka	Problem Solving Through Programming in C	Elite+Sliver	

Books and chapters

Name of the teacher	Title of the book/chapters published	Title of the paper	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
Dr..K.AnuPriya Dr.K.Lavanya	Applications of Artificial Inelligence	-	2021-22	978-93-5526-896-9	LBRCE	Immortal Publications https://www.immortalpublications.com

List of Patents

Sl. No.	Title of Patent	Name of The Faculty	Patent Id
1	Method and System for Dynamic Forecasting df Crime Risk Using Artificial Intelligence (AI) Techniques	Mrs. A. Sarvani, Mrs. Saddi Jyothi, Mr. CH.P.V. Srinivasa Rao	202241004659
2	Method and System for Utilizing Deep Learning Techniques For Implementing Electronic (E) Authentication of an Entity Using Eye Blinking	Dr. Lavanya Kampa, Dr. Anupriya Koneru	202241004656
3	A Method for A Fraud Detection in A Bank Transaction with A Wrapper Model and A Harris Water Optimization-Based Deep Recurrent Neural Network	Mr. V.V. Krishna Reddy, Mr. K. Rajasekhar	2021106075

Alumni Interactions:

Name of the Alumni Visited	Date	Roll Number	Organization/Institute	Remarks
K.Naga Venkata Sai Bhuvana	18/12/2021	18761A1209 18761A1221	TCS Hyderabad, Inosys	Placements Preparation & Career Guidance
Ausree,Balaji,Teja,	07/12/2021	17761A1202 17761A1217 17761A1225	TCS	Carrer Guidance
Sainadh Gupta	03/12/2021	11761A1240	System Engineer,TCS	Software Working Environment

Students participated in Gym Competitions:

Name of the Event	Roll Number	Name of the Student	Name of the Organization/Institute & Place	Date
Weight Lifting & Power lifting	19761A1266	A.Srinivasa Ajay Babu	GMRIT ,Rajam,Srikakulam AP	20-12-2021 to 21-12-2021

SAHELI- Girls Club:

S.No.	Event	Date	Resource person	Coordinator
1	Gendar Equality	27/10/2021	----------	Mrs. K.AnuPriya,Assco Prof., IT Department
2	Gendar Equality	18/11/2021	--------	All ICC,Saheli Department Coordinators
3	Role of Education in Empowerment of Women	07/12/2021	Mrs.P.Girija Staya Kumari, Inspector , Special Enforcement Bureau ,Mylavaram	:Dr.O.Rama Devi , Incharge – ICC, LBRC. Mrs.K.Rani rudramma, Mentor , Saheli-Girls Club. Mrs G.Tabita, Mentor - Saheli-Girls Club.
4	Induction Program - 2k22	10/12/2021	---------	All ICC, Saheli Department Coordinators
5	Induction program	27/11/2021	---------	Mrs. K.AnuPriya,Assco Prof., IT Department

6	Cancer Prevention in Women	16/12/2021	Dr. Anila Patibandla,Clinical Oncology, M.B.B.S , M.R.C.P, F.R.C.P , CCT(UK)	Dr.P.Ashok Reddy, NSS Program Officer, LBRCE Mrs.K.Rani rudramma, Mentor , Saheli-Girls Club. Mrs G.Tabita Mentor , Saheli-Girls Club
7	191st Birth Anniversary Celebrations of Savitribai Phule	03/01/2022	Dr.K.Appa Rao , Pricipal , LBRCE Dr.O.Rama Devi, Incharge-ICC,LBRCE	Ms G.Tabita, Mentor,Saheli-Girls Club

Higher Education Student Data:

S.No	Roll No	Name of the student	Exam	Score
1	18761A1201	ADUSUMALLI NAGA CHANDANA	GRE	315
2	18761A1210	BUDETI DEEPIKA	TOFEL	102
3	18761A1244	PEDDIREDDY JANAKI NIVAS REDDY	GRE	318
4	18761A1255	TATIKONDA NAGA VIVEK	GRE	311
5	18761A1257	UPPUTURI MAHESHWAR REDDY	GRE	308
6	18761A1257	UPPUTURI MAHESHWAR REDDY	IELTS	6.5

Events Organized by the Department of Information Technology

Technical Club Activities in I.T Dept.:

S.NO	Name of the Club	Name of the Event	No.of Participants	Conducted Date
1	Tecda	Online Quiz Competition on Python	217	11-01-2022
2	Tecda	Online Quiz Competition on -C Programming	476	28-11-2021

Books& Beyond ClubClub Activities in I.T Dept.:

BOOKS and BEYOND CLUB

Report on " BOOK REVIEW"

Event Type: Book Review(Offline)
Date / Duration: 1st OCT,2021&3:10-4:10PM
Faculty Coordinator(s): Dr.B.Srinivasa Rao,HOD Dept of IT,LBRCE.
Dr. R. Vijay Kumar Reddy ,Assoc.Professor,Dept of IT,LBRCE.
Mr. K. Ravi Teja Asst. Professor,Asst.Professor,Dept of IT,LBRCE.

Presenters: Ms. A. Kavya (19761A1201)
Ms.R.Priyadarshini(19761A1246)
Ms.S.Swathi(19761A1248)
Ms.P.Veenadhari(19761A1243)
Target Audience: All 3rd year Students of IT department,LBRCE.

Total no of Participants: 82

Objective of the event: To Present a Review on a book titled "7 habits of highly Effective People"

Description / Report on Event:

On 1st October,2021 all the 3rd year students of IT department are assembled in 1F04 for a book review which is being organized as a part of BOOKS and BEYOND CLUB of IT Department.Book Review was done and delivered with power point presentation(PPT).Ms.P.Veena took the initiation and actively started the session.Later Ms.A.Kavya one of the presenters proceeded with her review and shared her personal learnings and experiences with all the other students there.Finally Dr.B.Srinivasa Rao,HOD,Dept of IT mentioned some of the key points regarding the Books and Beyond Club and about the importance or reading books in a student life.

Swecha Club Activities in I.T Dept.:

Report On "WORKSHOP ON IMAGE PROCESSING USING OPEN CV"

Event Type: Workshop (Offline)
Date / Duration: 30th October, 2021, One day.
Resource Persons:

- **Sripath Roy,** General Secretary of SLC(Swecha Learning Center)
- **Aasritha**, Software developer at Tech Mahindra.
- **Niharika,** Developer at Cognizant.
- **Hemchand,** Business analyst at Quantify.

Name of Faculty Coordinator:
Mr. K.Rajasekhar, Sr.Asst.Prof.,Dept.of IT, LBRCE-Mylavaram
Name of Student Coordinator(s):

- U. Maheswar Reddy-18761A1257
- A.Mounika-18761A1202
- B.Bhavana-18761A1203
- R. Priyadarshini -19761A1246
- A.Kavya-19761A1201
- S.Swathi-19761A1248
- P.Veenadhari-19761A1243
- G.Raviteja-19761A1279
- G.Abhishek-19761A1284
- R.Kalyan-19761A12B1
- M.Vamsi Krishna-19761A12C4
- Ch.Abhi Naga Mouli-20765A1208
- G.Likhitha-19761A1281
- M.Krishnaveni-19761A1298
- Y.Harika-19761A12C8
- G.Jahnavi Reddy-19761A1287

Target Audience: 3rd Year LBRCE Students
Total no of Participants: 370
Objective of the event: To disseminate the knowledge of " **Image processing using OpenCV"** among students.
Outcome of event:
At the end of the event participants can able to

- To improve knowledge of Python OpenCV Libraries
- To improve Knowledge on working on Image Processing using openCV.
- To improve knowledge on face detection and object detctection

Description / Report on Event:
The Department of Information Technology (IT), Lakireddy Bali Reddy College of Engineering (LBRCE), Mylavaram, organized the workshop for UG 3rd Year students of the college on 30th October 2021, One Day.

The One-day workshop conducted through offline in Lotus hall from 09.30 A.M. to 04.00 P.M.

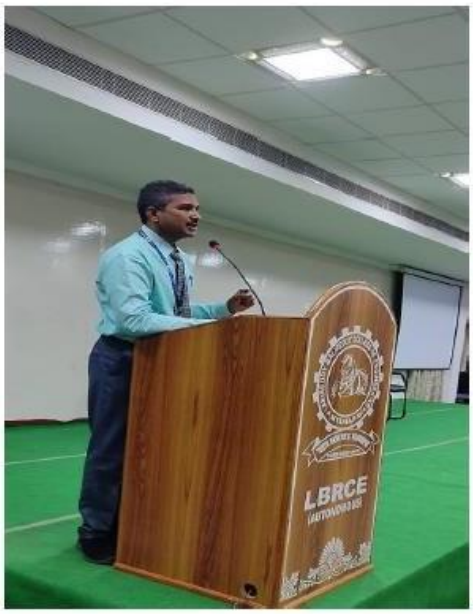
30/10/2021:

One day workshop was inaugurated on 30th October,2021 by the HOD, Department of IT and Principal of LBRCE. All the IT department faculty members, Resource persons and participants attended. The day started with the welcome speech given by Principal Sir, Hod sir, continued the workshop. In the session, conducted and the following topics covered:

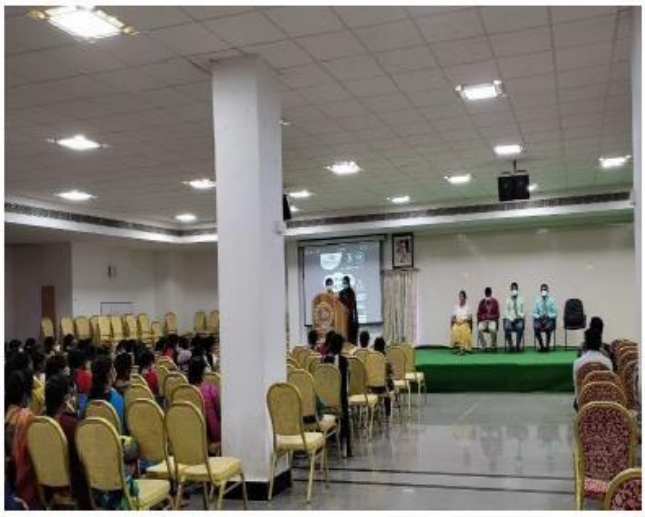
- Installations of PythonIdle , OpenCV library and Numpy .
- Converting image into matrix format.
- Type and shape of Image
- Converting the colored Image into gray scale
- Resize the image
- Border to the image
- Blur the image

- One day Workshop on image processing using Open Cv

Title: Addressing about workshop by **Dr. K.Apparao Garu**,principal of lbrce



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



Title: Inauguration on Image Processing using OpenCv

Title : Demo by Aasritha(software developer at Techahindra) on Image processing using OpenCv

Swecha
ANDHRA PRADESH

1 Day **WORKSHOP** On

Image Processing using OpenCV

OpenCV

30 OCT 2021 (Sat)

9:00AM ONWARDS

Open for all

Register: http://swechaap.org/events/lbrce

Organized by

#LBRCE SLC

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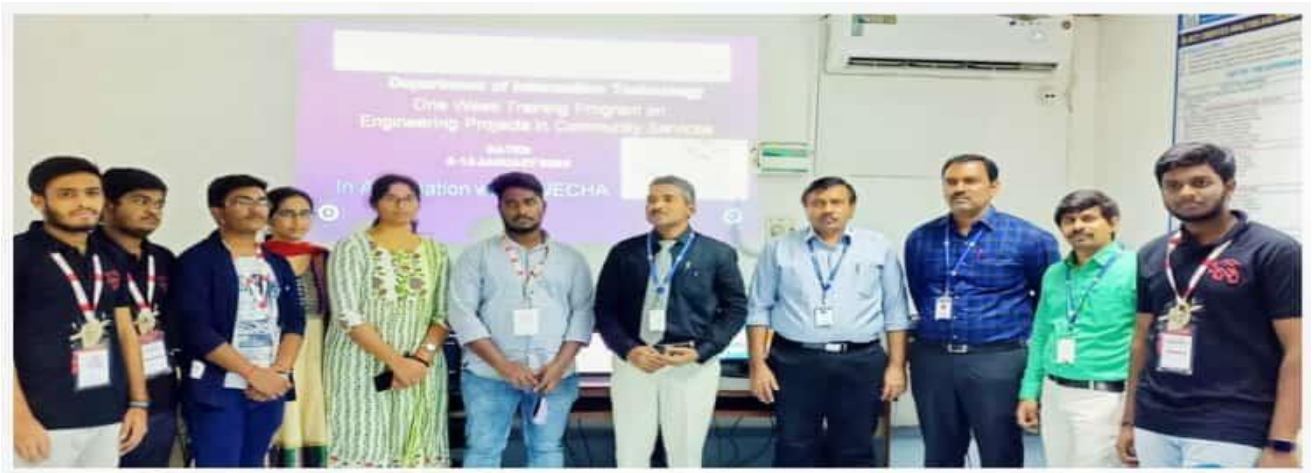

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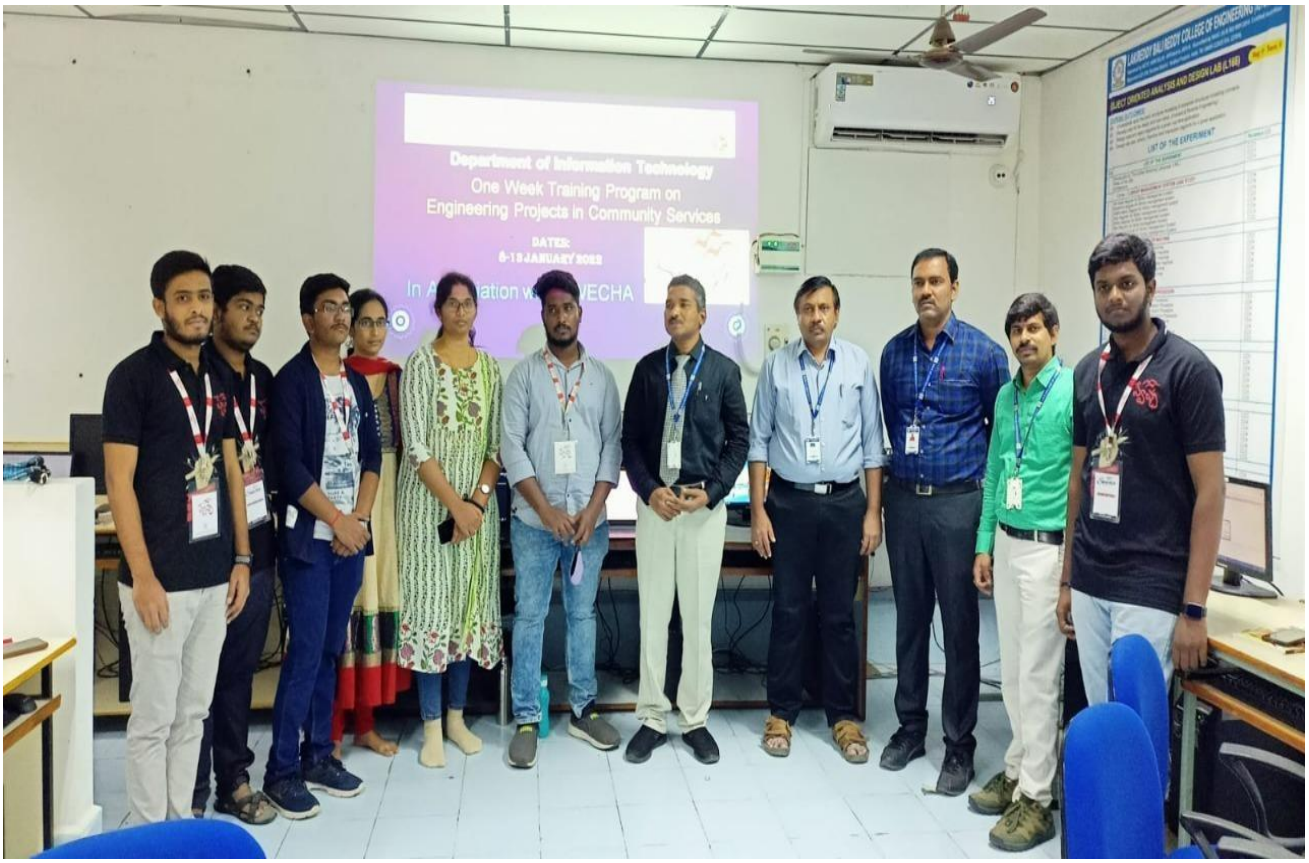
Department of Information Technology
One Week Training Program on
Engineering Projects in Community Services
DATES:
8-15 JANUARY 2022

--ooOoo--