TECH TALK

A Bi-ANNUAL MAGAZINE OF

CSE

2024-2025 ISSUE-II

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LBRCE(A)

Accredited by NAAC with 'A' Grade & NBA (Under Tier - I),
An ISO 21001:2018,14001:2015,50001:2018 Certified Institution
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Chitturi Yasvanth, 22761A05E2

FOREWORD

DR.K.APPARAO

PRINCIPAL

Department of Computer Science & Engineering 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, "TechTalk". The way they presented it was unique, very creative and hope it willserve 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-Talk including faculty coordinators who reallymade it possible.

Congratulate the department of CSE, LBRCE for bringing out the prestigious bi-annual magazine, Tech- Talk. 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 thestudents. My congratulations to the editorial board who took the responsibility for the arduous task Dr. D. Veeraiah most effectively.

DR.D.VEERAIAH

HOD

VISION

The Computer Science & Engineering aims at providing continuously stimulating educational environment to its students for attaining their professional goals and meet the global challenges.

MISSION

- To develop a strong theoretical and practical background across the computer science discipline with an emphasis on problem solving.
- To inculcate professional behavior with strong ethical values, leadership qualities, innovative thinking and analytical abilities into the student.
- Expose the students to cutting edge technologies which enhance their employability and knowledge.
- Facilitate the faculty to keep track of latest developments in their research areas and encourage the faculty to foster the healthy interaction with industry.

OUTCOME BASED EDUCTION:

Outcome-Based Education means clearly focusing and organizing everything in an educational system around what is essential for all students to he/she able to do successfully at the end of their learning experiences [Spady, William]. This means starting with a clear picture of what is important for students to be able to do, then organizing curriculum, instruction, and assessment to make sure this learning ultimately happens.

The National Board of Accreditation, a body for promoting international quality standards for technical education in India has started accrediting only the programs running with OBE from 2013.

The Computer Science & Engineering (CSE) department offers two programs: Undergraduate program (B. Tech.) and Postgraduate program (M. Tech). As per the NBA guidelines the Program Outcomes (POs) are listed below for the programs.

PROGRAM EDUCATIONAL OBJECTIVES(PEOs):

PEO1: Pursue higher education, entrepreneurship and research to compete at global level.

PEO2: Design and develop products innovatively in the area of computer science and engineering and in otherallied fields.

PEO3: Function effectively as individuals and even at all the levels with ethics and necessary attitude.

PEO4: Serve ever-changing needs of the society with a pragmatic perception.

PROGRAM OUTCOMES (POs)

PO1-Engineering knowledge:

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

PO2-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.

PO3-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.

PO4-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.

PO5-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.

PO6-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.

PO7-Environment and sustainability:

Understand the impact of the professional engineering solutions in societal 0and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8-Ethics:

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

PO9-Individual and team work:

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

PO10-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.

PO11-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.

PO12-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: The ability to apply Software Engineering practices and strategies in software project development using open source programming environment for the success of organization.

PSO2: The ability to design and develop computer programs in networking, web applications and IoT as per the society needs.

PSO3: To inculcate an ability to analyze, design and implement database applications

ABOUT THE DEPARTMENT:

The Department of Computer Science and Engineering at the LBRCE was established in 1998 and offers Undergraduate Programs - B.Tech in CSE, and Post Graduate Program - M.Tech in CSE. The B.Tech (Computer Science and Engineering) program was started in the year 1998 with an intake of 40 students and the intake was subsequently increased to 60 students in the year 1999, 90 students in the year 2008, 120 students in the year 2009, 180 students in the year 2019 and 240 students in the year 2023. The M.Tech (Data Science) was started in the year 2023 with an intake of 06 students. Currently, our institute enabled high speed Internet bandwidth of 1820 Mbps.

ADVANCED LABS IN CSE

1. DATA ANALYTICS LAB
2. IT WORKSHOP LAB
3. WEB ENGINEERING LAB
4. DATABASE INNOVATION LAB
5. COMPUTATIONAL ENGINEERING LAB
6. NETWORKS & SYSTEMS LAB
7. SOFT COMPUTING LAB
8. CISCO NETACADEMY LAB

DATA ANALYTICS LAB

This center is used for importing practical experience to students in the areas of Data engineering CASE tools, OOP, networking. The facility is also used by students to access internetand digital library facilities.

Name	DATA ANALYTICS LAB
HARD DISK	1TB HDD
RAM	8GB DDR4 RAM
PROCESSOR	i5 9th Generation
TOTAL No. Of SYSTEMS	73(Lenovo)

IT WORKSHOP LAB

The basic programming skills are imparted to the students from this laboratory. All the entry level students are trained in writing computer programs for problem solving. Getting acquainted with operating system environment, hardware components and installation procedures are some other objectives met with this facility.

Name	IT WORKSHOP LAB
HARD DISK	500GB HDD
RAM	4GB DDR3 RAM
PROCESSOR	i3 9th Generation
TOTAL No. Of SYSTEMS	74(Dell)

WEB ENGINEERING LAB

The Web Engineering Lab's objective is to provide students with a systematic approach to develop deep understanding of web technologies by providing hands on experience.

Name	WEB ENGINEERING LAB
HARD DISK	512GB SSD
RAM	16GB RAM
PROCESSOR	i5 12th Generation
TOTAL No. Of SYSTEMS	76(Lenovo)

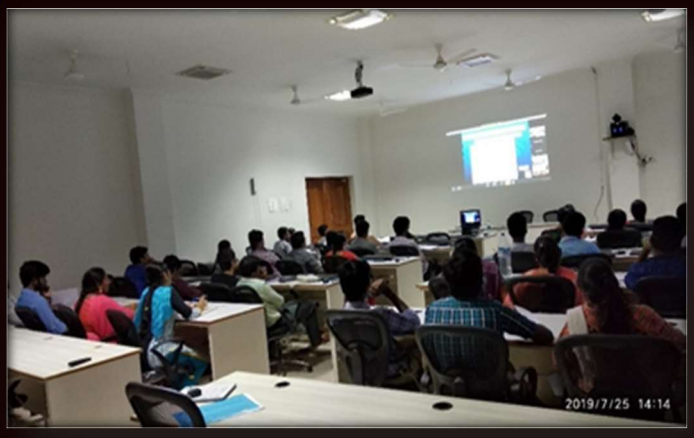
DATABASE INNOVATION LAB

Database innovation lab objective is to provide a cutting-edge learning environment for students, focusing on advancing database technology, optimizing performance, and ensuring data security. Students gain hands-on experience in developing innovative solutions for real-world data challenges.

Name	DATABASE INNOVATION LAB
HARD DISK	512GB SSD
RAM	16GB RAM
PROCESSOR	i5 8th Generation
TOTAL No. Of SYSTEMS	79(HP)

COMPUTATIONAL ENGINEERING LAB

Computational engineering lab objective is to provide a cutting-edge learning environment for students to apply computational methods, tools, and techniques to solve engineering problems and advance the field of engineering through simulation, modelling, and data analysis.

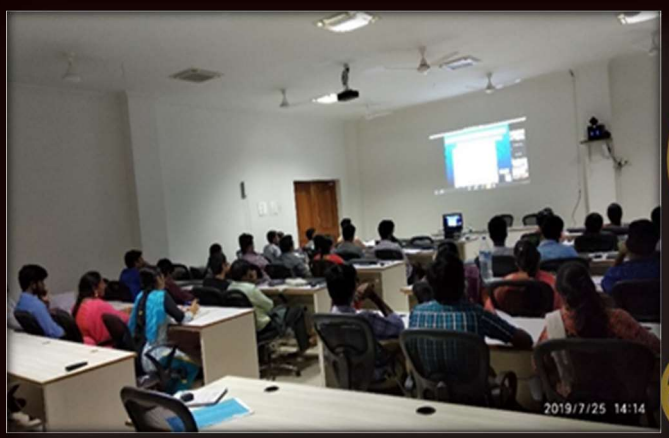


Name	COMPUTATIONAL ENGINEERING LAB
HARD DISK	512GB SSD
RAM	16GB RAM
PROCESSOR	i5 12th Generation
TOTAL No. Of SYSTEMS	69(HP)

NETWORKS AND SYSTEMS LAB

The objective of this laboratory in CSE department is to understand the basics of Computer Networks and Operating Systems implementation details. The student will learn tools and techniques. This lab mainly focuses on to re-enforce the theoretical knowledge learned from classroom lectures with hands-on experience and vice-versa.

Name	NETWORKS AND SYSTEMS LAB
HARD DISK	37-500GB HDD, 35-1TB HDD
RAM	37-16GB RAM, 35-8GB RAM
PROCESSOR	i5 8th Generation
TOTAL No. Of SYSTEMS	72(37-ACER, 35-Lenovo)



SOFT COMPUTING LAB

Soft computing helps users to solve real-world problems by providing approximate results that conventional and analytical models cannot solve. It is based on Fuzzy logic, genetic algorithms, machine learning, ANN, and expert systems.

Name	SOFT COMPUTING LAB
HARD DISK	512GB SSD
RAM	16GB RAM
PROCESSOR	i5 12th Generation
TOTAL No. Of SYSTEMS	35(Lenovo)

NET ACADEMY LAB

In this lab we will connect different local area networks routers on Cisco Packet Tracer.

Name	NET ACADEMY LAB
HARD DISK	512GB SSD
RAM	16GB RAM
PROCESSOR	i5 12th Generation
TOTAL No. Of SYSTEMS	35(Lenovo)

STUDENT CLUBS AND ASSOCIATIONS

01 IEEE STUDENT CHAPTER

02 LBRC ACM STUDENT CHAPTER

03 ASSOCIATION OF COMPUTER GEEKS

IEEE STUDENT CHAPTER

IEEE Providing opportunities for students to enhance their technical skills, learn about advancements in their field, and engage with professionals through workshops, seminars, conferences, and technical presentations

LBRCE ACM STUDENT CHAPTER

ACM is to facilitate research, knowledge sharing, learning and career enhancement for all categories of IT Professionals, while simultaneously inspiring and nurturing new entrants into the industry and helping them to integrate into the IT community.

ASSOCIATION OF COMPUTER GEEKS (ACG)

The objective of the 'Association of Computer Geeks' is to provide a platform to all the budding software professionals to showcase their talents. The motto of Association of Computer Geeks is "students should bring up themselves to all round professionals with the both technical and managerial capabilities".

ARTICLES BY OUR FACULTY

01 SCS: A Secure Cloud Storage Framework with Enhanced Integrity and Auditability Using Consortium Blockchain System

02 EAPCET College List Recommendation System

03 Innovative passwordless authentication approaches in IoT identity management

04 Hyper tuning hybrid MLP-CatBoost classifier using Mayfly optimization for detection of heart disease

SCS: A Secure Cloud Storage Framework with Enhanced Integrity and Auditability Using Consortium Blockchain System

The widespread adoption of cloud storage enables users to remotely access resources through a self-service model. Utilizing pay-per-use storage services provided by cloud service providers (CSPs) requires users to commit financially to their resources. This paper introduces a Secure Cloud Storage (SCS) framework, offering a secure architecture for cloud storage using a consortium blockchain network to address trust issues. This framework substitutes the third-party auditor with peers of a consortium blockchain network, which handles the role of data storage and verification. Storage space is divided into uncommitted and committed segments. Uncommitted storage is used for storing unverified documents, while committed storage is reserved for documents that have been validated through a consensus mechanism.

In contrast, committed storage is des-ignated for the storage of committed documents. Documents validated by a consensus threshold of peer nodes are moved from uncommitted to committed storage. The implementation of the SCS framework is conducted using Hyperledger Fabric, a modular blockchain platform optimized for permissioned networks. The security analysis demonstrates that SCS effectively protects cloud storage against attacks, including unauthorized access attacks, data integrity attacks, and malicious server attacks, while maintaining data integrity and auditability. The performance evaluation shows that document upload and retrieval times, block acceptance, execution times, and latency are all improved compared to state-of-the-art cloud storage techniques.

AUTHOR

Dr. M. Srinivasa Rao
Professor & Dean - Academics

EAPCET College List Recommendation System

After finishing Intermediate, selecting the right Engineering college by the student is a big challenge for them which strongly effects on their career if they neglects to select. Nowadays, there are many Engineering colleges in our state to choose from, and students will struggle to make careful decisions among them. To help them with this challenge, we suggest using a College List Recommendation System that uses machine learning techniques to recommend the list of colleges which are suitable for them. This system is designed to give personal suggestions to the students based on their details like EAPCET rank, gender, caste and so on.

Our recommendation system relies on a detailed dataset that includes the rank cutoffs for colleges from the previous year in different categories, gender, caste, college code and so on. By using a supervised learning approach, our machine learning model trains and finds insight patterns of the dataset. Thus, our recommendation system allows the model to provide smart recommend

AUTHOR

Dr. Y.V. Bhaskar Reddy
Professor

Innovative passwordless authentication approaches in IoT identity management

A global ecosystem of networked sensors, actuators, and other devices intended for data exchange and interaction is known as the Internet of Things(IoT). Password-based authentication has been a major component of IoT solutions historically, despite its numerous flaws. This survey article provides a thorough analysis of the literature with an emphasis on the implementation of authentication without the use of passwords on the Internet of Things. Ensuring that authorized persons have the correct access to related IT incomes under the correct situations is the core necessity behind enterprise IoT security. Identity managing, the first line of protection in initiative security, is a key component of this project.

Traditional password-based authentication systems are frequently regarded as "high friction," causing users' problems and lengthy procedures in addition to being vulnerable to different security threats. IoT businesses are investigating password less authentication techniques more frequently in an effort to improve user productivity while preserving strong security assurance in response to these difficulties. A comprehensive analysis of password less authentication mechanisms designed for the Internet of Things is presented in this article.

AUTHOR

Dr. Kommuri Venkatrao
Assoc. Professor

Hyper tuning hybrid MLP-CatBoost classifier using Mayfly optimization for detection of heart disease

Diagnosing heart disease is considered a difficult task as it provides a digital estimation of the seriousness of the disease. As a result, the quickest treatment can be done. So, heart diagnosis has attracted a lot more attention in the medical industry throughout the globe, and along with excellence in efficacy, the optimization algorithm plays a crucial role in the detection of heart disease. Here, to predict the cardiac illness an improvised CatBoost algorithm and Multi-layer Perceptron classifier are used. Also, proper hyperparameter tweaking is needed for the successful implementation of the classifier. In order to optimize the hybrid model's hyperparameters, the Mayfly optimization algorithm is deployed for effective hyperparameter optimization.

In order to increase prediction accuracy, the Harris-Hawks optimization technique is used to choose the essential features from the dataset. Z-Alizadeh Sani and Cleveland heart disease datasets are utilized to detect heart disease. Also, it is compared with the existing models. To validate the efficiency of a model, six various measures are used: precision, accuracy, recall, the F- 1 measure, specificity, and loss. Here, when compared to the previous studies, the proposed model yields better performance, i.e., 98.7% accuracy with Cleveland and 99.2% with Alizadeh Sani Datasets.

AUTHOR

Dr. N.V.Maha Lakshmi
Associate Professor

ARTICLES BY OUR STUDENTS

01 Deep Learning-Based Environmental Monitoring using InceptionNet or EfficientNet

02 Portable Audio-Based Navigation Aid for the Visually Impaired

03 Enhancing Heart Disease Prediction Using Different Ensemble Models

04 Deep Learning for Soil Classification and Crop Recommendation

Deep Learning-Based Environmental Monitoring using InceptionNet or EfficientNet

Environmental degradation caused by pollution, deforestation, and improper waste management has emerged as a global issue demanding intelligent and automated monitoring systems. The growing environmental challenges require advanced technologies capable of analyzing vast amounts of ecological data with high precision. This project proposes a deep learning-based environmental monitoring system utilizing InceptionNet and EfficientNet architectures to analyze real-time images and sensor data for detecting environmental issues such as air pollution, land degradation, and waste accumulation. Traditional monitoring techniques rely on manual observation and statistical models, which are often time-consuming, expensive, and prone to inaccuracies. In contrast, deep learning provides improved accuracy, scalability, and automation, enabling real-time environmental analysis. The proposed system collects data from satellite imagery, IoT sensors, and camera feeds, preprocesses it through normalization and augmentation, and applies convolutional neural networks (CNNs) to identify and classify environmental patterns efficiently.

By leveraging InceptionNet's multi-scale feature extraction and EfficientNet's compound scaling, the model achieves high accuracy and computational efficiency even with limited resources. Experimental results indicate enhanced performance and real-time responsiveness, making the system suitable for integration into smart city infrastructure and environmental management platforms. This approach highlights how artificial intelligence can contribute effectively to sustainability, climate action, and environmental conservation, providing a scalable and reliable solution to monitor, predict, and mitigate ecological threats in an ever-changing world.

AUTHOR
Mr. Chitturi Yasvanth
III Year, 22761A05E2

Portable Audio-Based Navigation Aid for the Visually Impaired

Navigation aids for individuals with visual impairments have evolved considerably with advancements in artificial intelligence and mobile computing. However, many existing systems continue to face challenges in terms of portability, real-time responsiveness, and user-friendliness, often requiring extensive training or bulky hardware. Furthermore, current solutions frequently lack detailed contextual awareness, providing limited information about obstacles and surrounding environments, which restricts independent and safe navigation in dynamic settings. This paper presents a portable audio-based navigation assistant designed to operate efficiently on smartphones using deep learning models for object detection and classification. The system provides real-time auditory feedback to the user, describing the type, position, distance, motion status, and contextual scene data of detected obstacles. This multimodal feedback enables visually impaired users to interpret their surroundings effectively and make informed navigation decisions.

The proposed system employs a lightweight deep neural network with optimized inference time to ensure smooth performance on portable devices without compromising accuracy. An adjustable confidence threshold further enhances adaptability by allowing users to filter detected obstacles based on their preferred sensitivity level, ensuring that the feedback remains accurate and relevant. By combining deep learning, portability, and adaptive feedback, this navigation aid represents a significant step forward in developing real-time, intelligent, and user-centered assistive technologies aimed at improving mobility, autonomy, and safety for visually impaired individuals.

AUTHOR
Mr. V. Kesava Chari
IV Year, 21761A0560

Enhancing Heart Disease Prediction Using Different Ensemble Models

Heart disease remains one of the leading causes of death worldwide, making early detection and timely treatment critical to saving lives. Accurate and effective prediction models are essential to identify individuals at risk of heart attacks and strokes. However, traditional methods often struggle with managing complex medical datasets and generating reliable predictions. This study focuses on improving heart disease prediction by leveraging a range of machine learning classifiers, including Logistic Regression, Random Forest, Decision Tree, K-Nearest Neighbors (KNN), Support Vector Machine (SVM), Naive Bayes, Gradient Boosting, and Multilayer Perceptron (MLP). The dataset used in this work incorporates important cardiovascular risk factors such as age, sex, cholesterol levels, blood pressure, smoking status, and other relevant medical indicators. After thorough preprocessing, feature engineering, and exploratory data analysis (EDA), multiple models were trained and evaluated for their performance. Among these, the Multilayer Perceptron achieved the highest accuracy of 99.17%, demonstrating its superior capability in capturing complex patterns. Random Forest and Decision Tree models followed with accuracies of 78.68%, while SVM and Naive Bayes scored 81.96% and 81.97%, respectively. Logistic Regression and Gradient Boosting achieved 85.12% and 73.77%, with KNN showing the lowest accuracy at 62.30%.

To showcase the practical applications, a continuous forecasting system was developed using Streamlit, providing an interactive user interface that delivers real-time predictions. This implementation highlights the potential for these machine learning models to be integrated into real-world healthcare settings to assist clinicians in early diagnosis and risk assessment.

AUTHOR

Mrs. K. Aswini

IV Year, 21761A0531

Deep Learning for Soil Classification and Crop Recommendation

Enhancing agricultural productivity and sustainability demands accurate soil classification and appropriate crop recommendations. Traditional soil analysis techniques, while precise, are often time-consuming, labor-intensive, and inaccessible to small-scale farmers. This study presents a real-time smart agriculture system that employs deep learning for efficient soil classification and crop recommendation. The proposed framework integrates Convolutional Neural Networks (CNN), MobileNetV3, and VGG16 models to classify four major soil types—Alluvial, Black, Clay, and Red—achieving accuracies of 96%, 92%, and 93%, respectively. Data augmentation techniques were applied to enhance dataset diversity, ensuring robust model generalization under varied environmental conditions.

The system is implemented through a Flask-based user interface, enabling users to upload soil images and receive instant soil type identification with corresponding crop suggestions. By leveraging real-time image analysis, the solution bridges the gap between traditional soil testing and modern digital agriculture. The recommendations consider key parameters such as soil texture, color, and nutrient suitability, providing farmers with actionable insights for maximizing yield and optimizing resources. Experimental results confirm that the integrated models perform efficiently in identifying subtle soil variations, making them suitable for scalable and practical deployment. This approach demonstrates how deep learning, coupled with real-time applications, can revolutionize precision agriculture, promoting data-driven decisions for sustainable farming and improved crop productivity.

AUTHOR
Mrs. K. Likitha
IV Year, 21761A0533

One day workshop
On
“3-Tier MVC Architecture Implementation”

Resource Person: Dr.Venkat, Mr.Vishnu, Mr.S.Siva.

Name of the Organization: Alladi Cloud Solutions,HYD

Event Date: 22-03-2025

About The Event:

The objective of event Implementing a 3-Tier MVC (Model-View-Controller) Architecture in a project provides students with valuable learning experiences and practical exposure to real-world software development. This architecture helps in structuring applications efficiently by dividing them into three distinct layers: the Presentation Layer (View), Business Logic Layer (Controller), and Data Layer (Model).

By working on such a project, students gain hands-on experience in building scalable and well-organized applications.

One day Guest Lecture
On
“ Digital Forensics and Block chain in Cryptography”

Resource Person: Mr.T. Ram Kumar

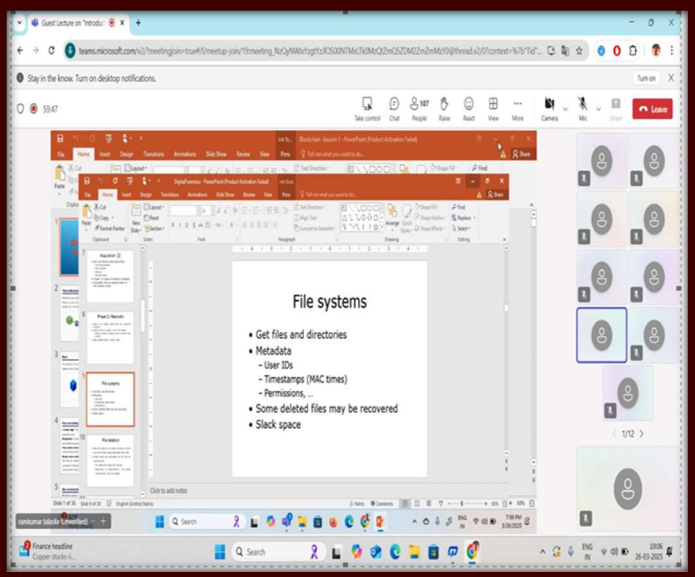
Name of the Organization: Aditi Software, Hyd.

Event Date: 26-03-2025.

About The Event:

The objective of this guest lecture was to provide participants with an in-depth understanding of cryptographic vulnerabilities in web applications. The session focused on real-world security flaws, cryptographic weaknesses, and best practices for securing web applications against cryptographic attacks.

Attendees were introduced to key concepts such as encryption algorithms, cryptanalysis techniques, andsecurity misconfigurations that could lead to cyber threats.



One day Guest Lecture
On
“Web Application Hacking”

Resource Person: Mr. Sai Satish

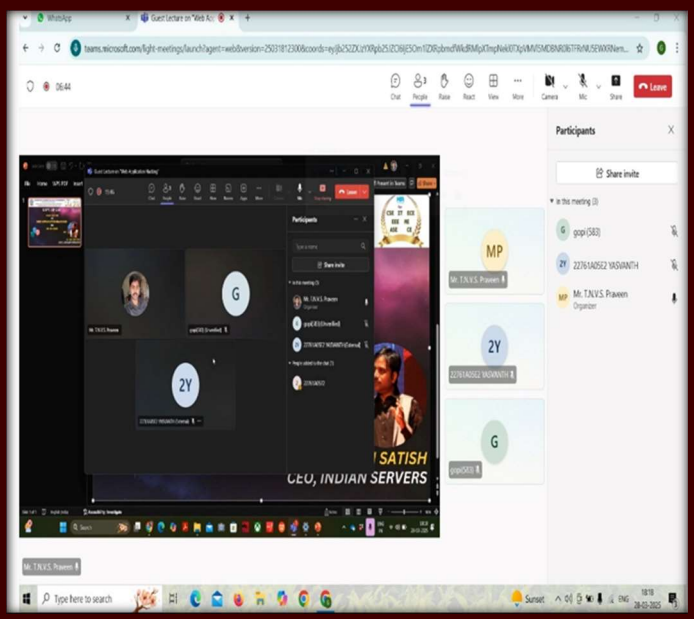
Name of the Organization: Indian Servers.

Event Date: 28-03-2025.

About The Event:

The objective of this guest lecture was to provide participants with an in-depth understanding of cryptographic vulnerabilities in web applications. The session focused on real-world security flaws, cryptographic weaknesses, and best practices for securing web applications against cryptographic attacks.

Attendees were introduced to key concepts such as encryption algorithms, cryptanalysis techniques, and security misconfigurations that could lead to cyber threats.



One day Guest Lecture
On
“NLP and its Applications”

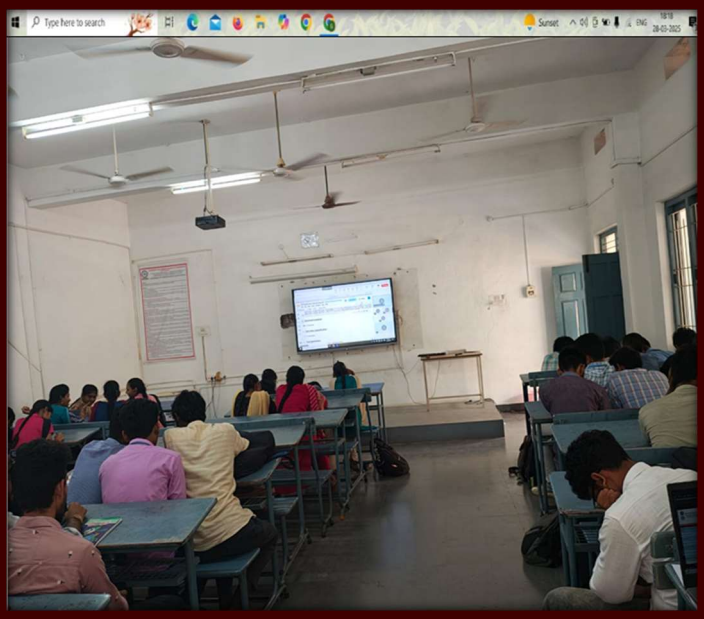
Resource Person: Dr Swarup Ranjan

Name of the Organization: ExxonMobil Bangalore

Event Date: 29-03-2025.

About The Event:

The session was delivered by Dr.Swarup Ranjan a distinguished expert in NLP.The objective of this lecture was to introduce students to the fundamentals concepts of NLP,its real world applications,and its role in modern AI-driven systems.



Guest lecture
On
“Applications of DataBase in Industry”

Resource Person: Mr. Prasanta Roy

Name of the Organization: Microsoft

Event Date: 21-03-2025.

About The Event:

To provide participants with a comprehensive understanding of how databases are utilized across various industries to enhance efficiency, decision-making, and business operations. The session will cover real-world applications, emerging trends, and best practices in database management. Goal: To enhance participants’ understanding of the critical role databases play in various industries.

It aims to bridge the gap between theoretical knowledge and real-world applications, enabling attendees to appreciate the significance of database management in improving business efficiency, decision-making, and innovation.

Guest lecture
On
“Stack and Queue Applications”

Resource Person: Mr. M. Tribhuvan Reddy

Name of the Organization: LTI Mindtree Hyd

Event Date: 27-03-2025.

About The Event:

A guest lecture on "Stack and Queue Applications" was conducted on 27th March 2025. The session was delivered by Mr. M. Tribhuvan Reddy, a distinguished professional from LTI Mindtree. The lecture aimed to provide students with insights into the real-world applications of stack and queue data structures in various domains of computing.

Guest lecture
On
“ Modern operating system trends: Security, AI and Cloud Computing”

Resource Person: Mr. J. Pravin Kumar

Name of the Organization: Prodevans Technologies Pvt Ltd, Hyderabad

Event Date: 03-04-2025

About The Event:

Understand the Evolution of Modern Operating Systems – Explain how OS architectures have evolved to incorporate security enhancements, AI capabilities, and cloud-based computing. Explore OS-Level Security Mechanisms – Discuss built-in security features such as access control, encryption, secure boot, sandboxing, and zero-trust models in modern OS. Examine AI-Enabled OS Functions – Highlight how AI is used in resource allocation, process scheduling, predictive maintenance, anomaly detection, and system optimization. Analyse Cloud-Based OS Innovations – Explain how modern OS integrates with cloud environments, including virtualization, containerization (Docker, Kubernetes), and serverless computing. Discuss Industry Use Cases and Trends – Provide real-world examples of how companies and organizations implement secure, AI-driven, and cloud-enabled operating system

Workshop
on
C++ Programming Fundamentals Workshop

Resource Person: Mr. M. Tribhuvan Reddy

Name of the Organization: LTIMindtree, Hyderabad

Event Date: 1st and 2nd April 2025

About The Event:

- To introduce the basics of C++ programming.
- To develop logical thinking and coding skills.
- To provide a practical learning experience through coding exercises.
- To identify and recognize top-performing students.

Key Activities:

- Day 1: Introduction to C++, syntax, data types, control structures, and basic I/O operations. Live coding demonstrations and hands-on practice.
- Day 2: Functions, arrays, pointers, and sample problem-solving sessions. Conducted a sample assessment to evaluate learning outcomes.

RESEARCH AND DEVELOPMENT

Sponsored Research & Consultancy:

S. No	Faculty with Designation	Title of the Proposal	Funding Agency-Scheme	Amount Sanctioned Date	Amount received in Rs.	Duration & Status
1.	**Ms.B.Swathi**	Abusive Social Media Comments Detection Telugu language using deep learning transformer models: Corpus generation and evaluation	LBRCE	Nov 2025	50000	Sanctioned & Ongoing
2.	**Dr. K. Devi Priya, Dr. B. Siva Rama Krishna**	IoT Integrated system for Gas Leak detection and threat Zone Identification and method Employed thereof	MSME	June-2025	15,00,000	Sanctioned

PUBLICATIONS:

Journals(SCI):

- **"Enhancing security and efficiency in Mobile Ad Hoc Networks using a hybrid deep learning model for flooding attack detection",** Pramodh Krishna D, E. Sandhya, Khaja Shareef Sk, Srihari Varma Mantena, **D. Venkata Subbaiah**, Ch Koteswara rao, Srinivasa Rao Vemula & Maruthi Vemula, in **Scientific Reports(Q1,Impact factor:0.9,H index:315)**, 15:818, 04-01-2025, ISSN: 20452322. https://doi.org/10.1038/s41598-024-84421-0

- Udayaraju Pamula, Venkateswararao Pulipati, **G. Vijaya Suresh**, M. V. Jagannatha Reddy, Anil Kumar Bondala, Srihari Varma Mantena & Ramesh Vatambeti **"Optimizing diabetic retinopathy detection with electric fish algorithm and bilinear convolutional networks"** Scientific Reports. *Sci Rep* 15, 14215 (2025).23 April 2025, ISSN/eISSN:2045-2322 https://doi.org/10.1038/s41598-025-99228-w Q1,Impact factor:0.9.

Journals(SCOPUS):

- **"An Integrated Anomaly Detection Framework For Stream Data Using Extended Lof With Window Method",** A Sree Rama Chandra Murthy**, CH. Venkata Narayana,** Journal of Theoretical and Applied Information Technology,**Q4 Impact Factor-0.17 H-Index-39**,15th January 2025. Vol.103. No.1, ISSN: 1992-8645, E-ISSN: 1817-3195.https://www.jatit.org/volumes/Vol103No1/13Vol103No1.pdf

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S. No.	Authors	Title of the Book	Publisher	Published Date	ISBN
1.	Puppala Naga Sravanthi, **M Kiran Kumar**	Verifying Food Influencers on Blockchain for Transparency in Endorsements and Combating Fake Reviews	IGI Global Scientific Publishing	Jan-2025	ISBN13: 9798369385425

Patents:

S.No	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	AI based Smart brain monitoring Device for Detecting Brain Activity	Dr.C.S.Boopathi, Dr.Ramesh Babu Pittala, **Mr.Rajasekhar P**, Dr. Prasanth Kamma, Mr.Vijay Kumar Gottipati	434430-001	03/01/2025
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3.	Artifical Intelliegence based Cloud Data Security Detector	Mr. Poovendran Alagarsundaram, Mrs. Shabnam Ara, Mrs. Tl Deepika Roy, **Ms. M. Swathi,** Dr. Putta Durga ,Mr. Abhlash	443944-001	27/03/2025
4.	System And Method For Real-Time Driver Behavior And Safety Monitoring	Seelam Mohith Reddy, **Matta Swathi, Dr. D. Veeraiah, Dr. D. Venkata Subbaiah**, Jonnadula Manasa, Kandula Tejasai	202541034679	9/5/2025

STUDENT ACHIEVEMENTS

Ms. T. Jhahnavi(22761A05C3) participated in Viksit Baharat Young Leaders Dialogue 2025

On the behalf of Andhra Pradesh

Mr. CH. Yasvanth(22761A05E2) participated in National Youth Parliament 2025, Konark

On the behalf of Andhra Pradesh

Hearty Congratulations

Appreciation

Smart India Hackathon 2024

(Software Version)

Students of CSE department

Congratulations

126 Students got selected North South Foundation (NSF) renewal scholarship worth of 31.5 Lakhs on 06-01-2025

64 Students got Selected for NSF renewal scholarship from CSE Department

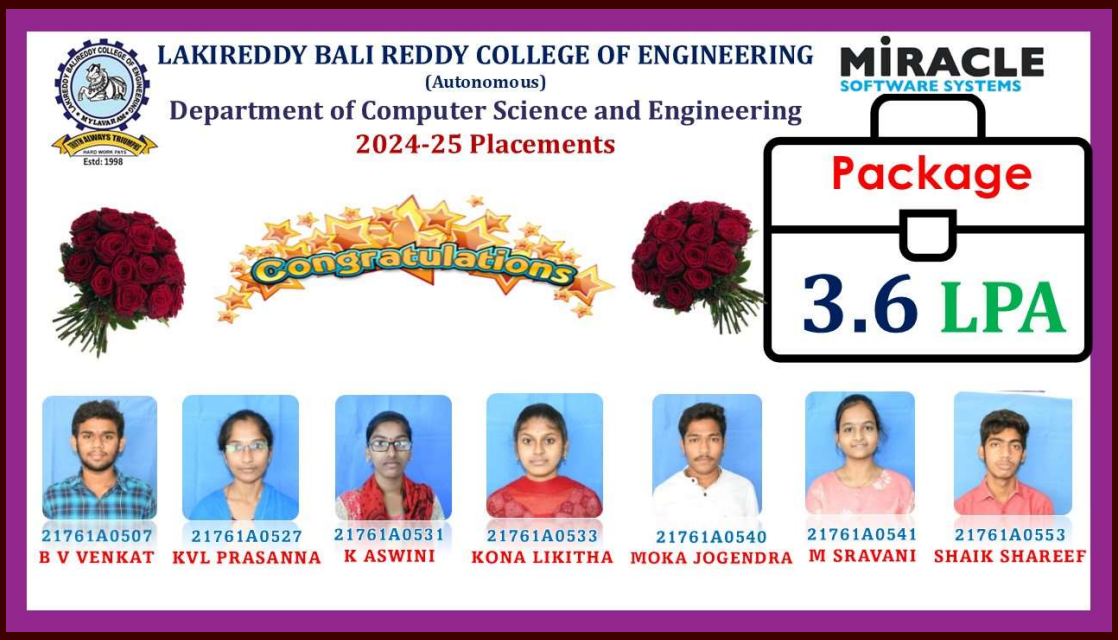
CSE Students with Winning Prizes on the Occasion of 27th Annual Day Celebrations

PLACEMENTS

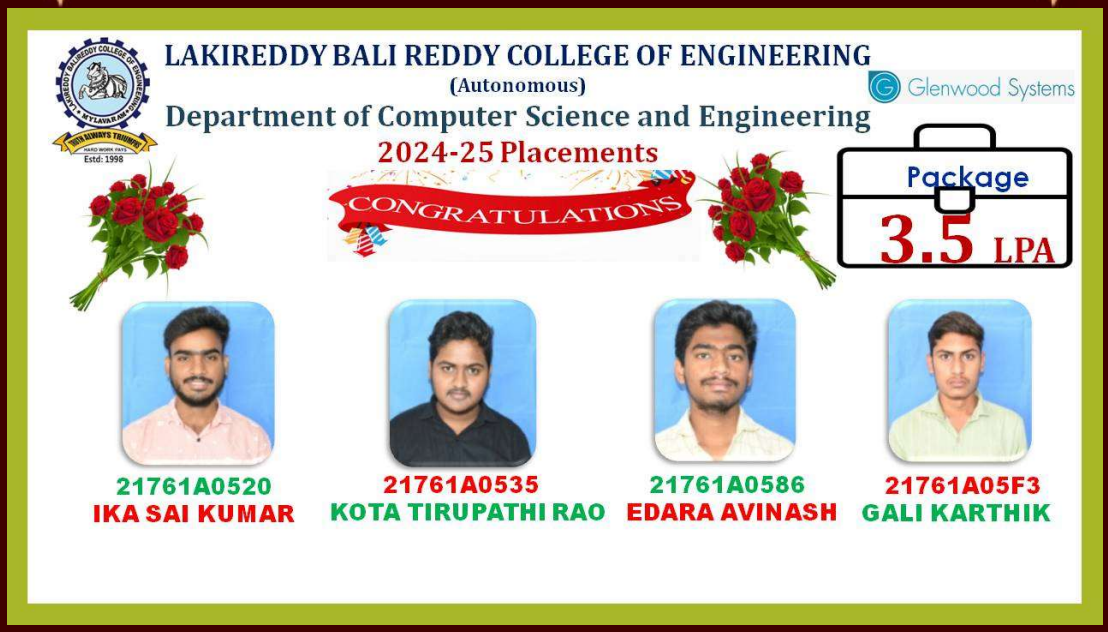
10 Students Got Selected for Infosys with 3.36 LPA

G. Nikhilesh Kumar(21761A0589) Got Selected for DILIGENT with 3.36 LPA

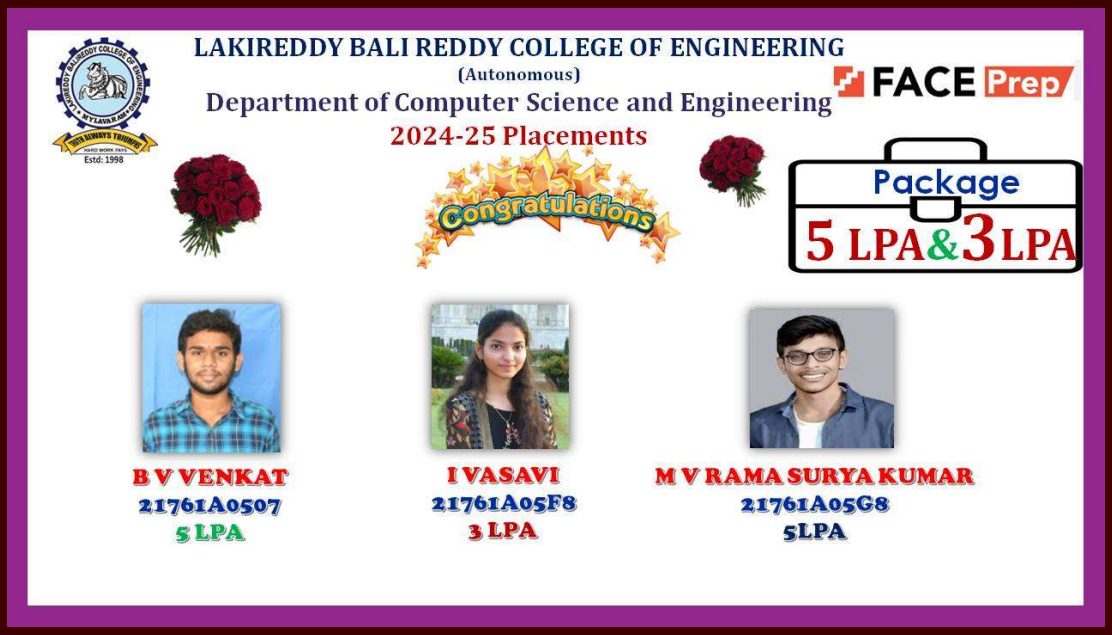
17 Students Got Selected for GenZ Educate Wing with 3 to 5 LPA



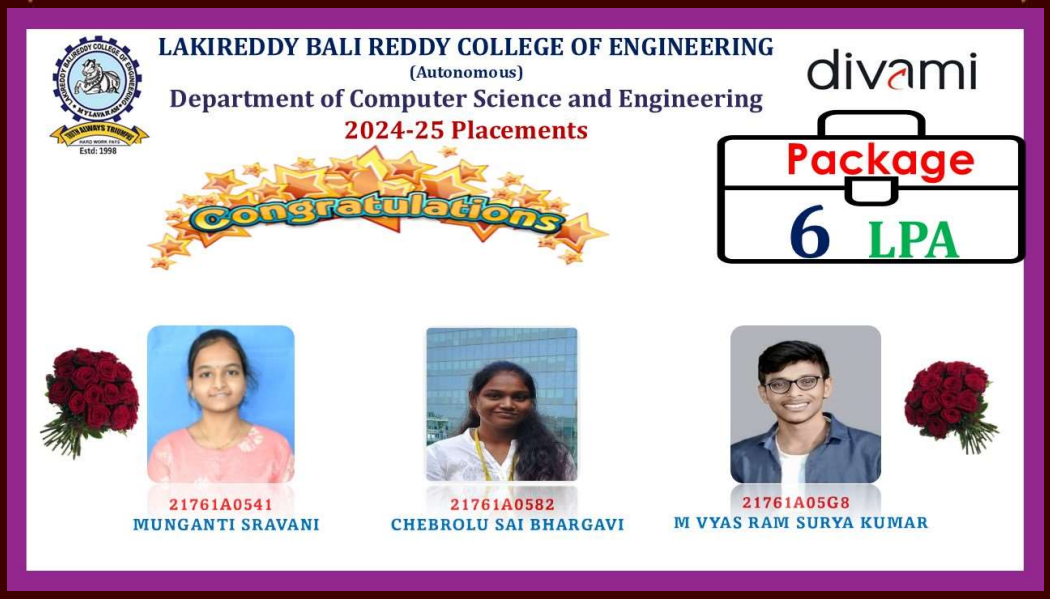
10 Students Got Selected for Miracle Software Systems with 3.6 LPA



4 Students Got Selected for Glenwood Systems with 3.5 LPA

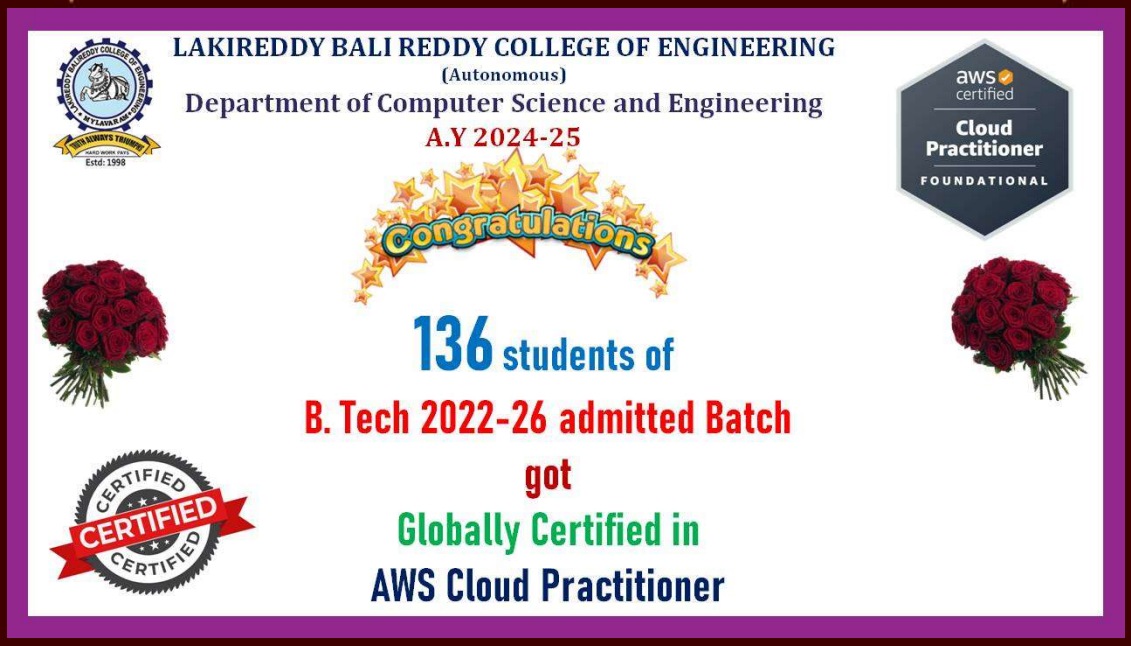


FACE Prep Recruits 2 Students with 5 LPA & One Student with 3 LPA



3 Students Got Selected for Divami with 6 LPA

Totally 185+ Students Got Selected for Various Companies



Totally 136 Students Globally Certified in AWS Cloud Practicioner

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LAKSHYA - 2K25 an 18th National Level Technical and CULTURAL Festival Casts on 25-01-2025

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Glimpses on 09-02-2025

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Joint Director, UPSC, Ministry of Home Affairs, Govt. of India

Prize distribution for Academic Topers

27th Annual Day Celebrations of LBRCE Glimpses on 22-02-2025

GRADUATION CEREMONY

Sri.L.R.N.K.Prasad Reddy,
Chairman, LBRCE

Chief Guest
Prof.K.V.Ramana,
Rector, JNTUK,Kakinada

Guest of Honour
Sri.Supriya Devidutta
IBM, Bangalore

LBRCE's Graduation Ceremony Class of 2K25 Glimpses on 14-06-2025

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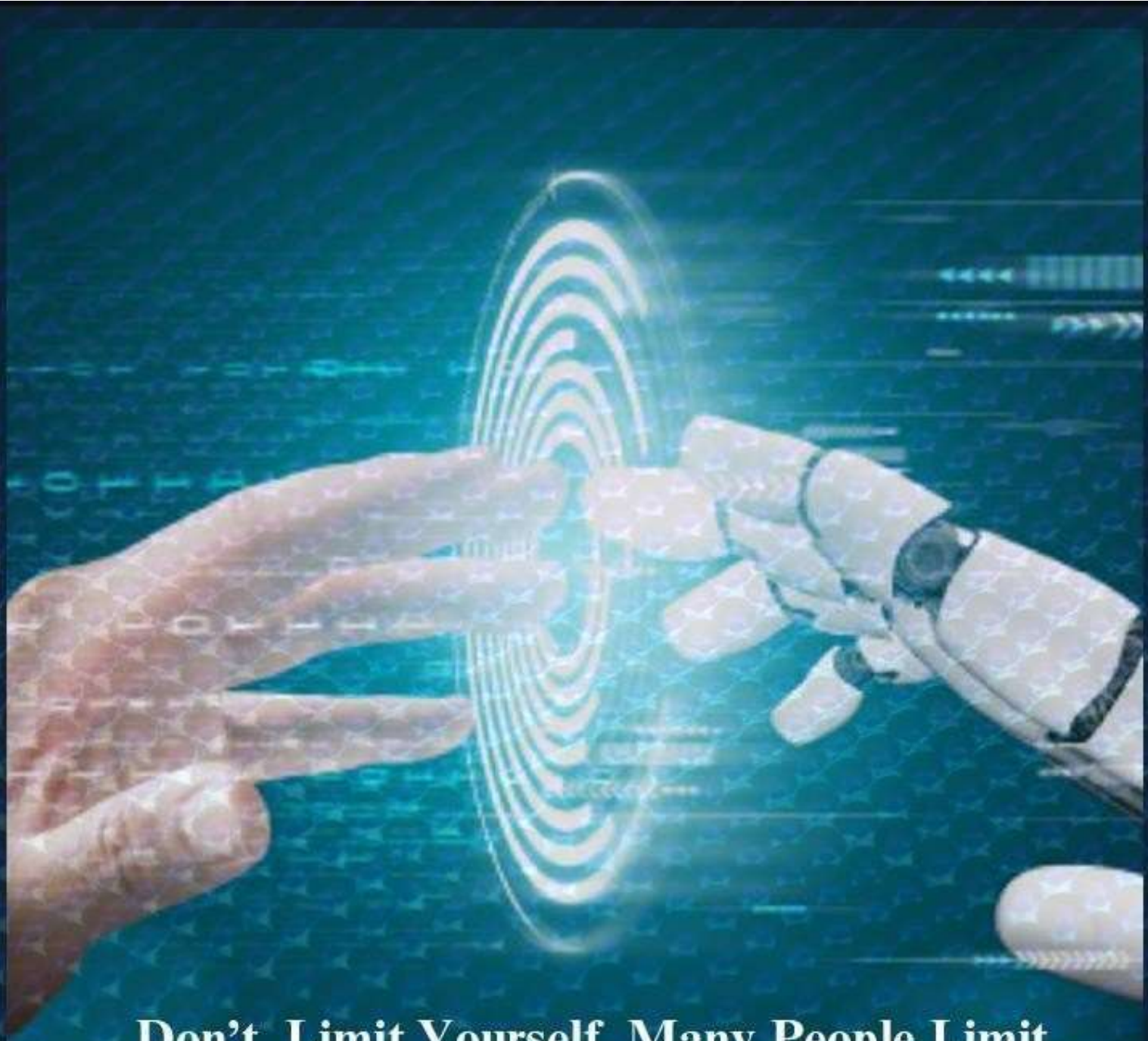

Don't Limit Yourself. Many People Limit Themselves To What They Think They Can Do. You Can Go As Far As Your Mind Lets You. What You Belive, Remember, You Can Achieve.

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