TECH TALK

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CSE

ISSUE -II

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LBRCE(A)

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An ISO 21001:2018,14001:2015,50001:2018 Certified Institution

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

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FOREWORD

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 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-Talk including faculty coordinators who really made it possible.

DR.K.APPARAO

PRINCIPAL

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 the students. 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.

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.

OUR FACULTY STRENGTH….

S.NO	NAME OF THE FACULTY	DESIGNATION
1	DR. M. SRINIVASA RAO	PROFESSOR & DEAN - ACADEMICS
2	DR. D. VEERAIAH	PROFESSOR & HOD
3	DR. CH. VENKATA NARAYANA	PROFESSOR
4	DR. D. VENKATA SUBBAIAH	PROFESSOR
5	DR. K. NAGA PRASANTHI	PROFESSOR
6	DR. Y.V. BHASKAR REDDY	PROFESSOR
7	DR. P. BHAGATH	PROFESSOR
8	DR. K. DEVI PRIYA	ASSOCIATE PROFESSOR
9	DR. J. NAGESWARA RAO	ASSOCIATE PROFESSOR
10	DR. S. NAGARJUNA REDDY	ASSOCIATE PROFESSOR
11	DR. B. SIVA RAMA KRISHNA	ASSOCIATE PROFESSOR
12	DR. G.VIJAY SURESH	ASSOCIATE PROFESSOR
13	DR. KOMMURI VENKATRAO	Sr. ASSISTANT PROFESSOR
14	MR. A.S.R.C. MURTHY	Sr. ASSISTANT PROFESSOR
15	MR. A. SUDHAKAR	Sr. ASSISTANT PROFESSOR
16	MR. N.V. NAIK	Sr. ASSISTANT PROFESSOR
17	MR. N. SRINIVASA RAO	Sr. ASSISTANT PROFESSOR
18	MR. S. GOVINDU	Sr. ASSISTANT PROFESSOR
19	MR. T.N.V.S. PRAVEEN	Sr. ASSISTANT PROFESSOR
20	MR. S. SRINIVASA REDDY	Sr. ASSISTANT PROFESSOR
21	MS. B. SWATHI	Sr. ASSISTANT PROFESSOR
22	MS. P. SARALA	Sr. ASSISTANT PROFESSOR
23	MR. A. GOPI SURESH	Sr. ASSISTANT PROFESSOR
24	MR. R. ASHOK	Sr. ASSISTANT PROFESSOR
25	MS. G.V. RAJYA LAKSHMI	Sr. ASSISTANT PROFESSOR
26	MS. B. USHA RANI	Sr. ASSISTANT PROFESSOR
27	MR.N.SRIKANTH	Sr. ASSISTANT PROFESSOR
28	MR.D. ANIL KUMAR	Sr. ASSISTANT PROFESSOR
29	MR. CH. SRINIVASA RAO	Sr. ASSISTANT PROFESSOR
30	MR.MD.AMANATULLA	Sr. ASSISTANT PROFESSOR
31	MR.P.VEERA SWAMY	Sr. ASSISTANT PROFESSOR
32	MR.M.KIRAN KUMAR	Sr. ASSISTANT PROFESSOR
33	MR.O. VENKATA SIVA	Asst. PROFESSOR
34	MRS.M. SWATHI	Asst. PROFESSOR
35	MS.T. VINEETHA	Asst. PROFESSOR
36	MR. P.NAGABABU	Asst. PROFESSOR
37	MRS. P.M. KAMALA KUMARI	Asst. PROFESSOR
38	MR.P.RAJASEKHAR	Asst. PROFESSOR
39	MRS.K.ESWAREE DEVI	Asst. PROFESSOR
40	MR. A. KOTESWARA RAO	Asst. PROFESSOR
41	MR. Y.PRAVEEN KUMAR	Asst. PROFESSOR
42	MRS. B.NIROSHA	Asst. PROFESSOR
43	MRS. M.GAYATHRI	Asst. PROFESSOR
44	MR.Y.BABU	Asst. PROFESSOR

OUR NON-TEACHING STAFF…

S.NO	NAME OF THE STAFF	DESIGNATION
1	B. RAVIKIRAN	PROGRAMMER
2	G.VENKATESWARA REDDY	PROGRAMMER
3	J.PRADEEP KUMAR REDDY	PROGRAMMER
4	V.MUTHYALA REDDY	PROGRAMMER
5	T.PURNA RAJESWARI	PROGRAMMER
6	M. PAVAN KALYAN	PROGRAMMER
7	P.NAGARANI	JR. PROGRAMMER
8	B.SUDEESHNA	JR. PROGRAMMER
9	R.SREEDHAR	HARDWARE ENGINEER
10	M.SIVA KUMAR	HARDWARE ENGINEER
11	V.CHANDRA SEKHAR	HARDWARE ENGINEER
12	L. GOPAL REDDY	HELPER
13	A.VARALA REDDY	HELPER
14	S. KRISHNA KUMARI	ATTENDER
15	K.SRINIVASA RAO	ATTENDER
16	P.ASHOK	ATTENDER

ADVANCED LABS IN DEPARTMENT

01 DATA ANALYTICS LAB

02 IT WORKSHOP LAB

03 WEB ENGINEERING LAB

04 DATABASE INNOVATION LAB

05 COMPUTATIONAL ENGINEERING LAB

06 NETWORKS & SYSTEMS LAB

07 SOFT COMPUTING LAB

08 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, net working. The facility is also used by students to access internet and 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)

DATA ANALYTICS LAB

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 12^{th} Generation
TOTAL No. Of SYSTEMS	35(Lenovo)

lkDATA ANALYTICS LAB

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 12^{th} 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

04 MACHINE LEARNING CLUB

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.

S.NO	ACADEMIC YEAR	EVENT NAME	ORGANIZED DATES
1	2023-2024	A One-Day Hackathon on Data Science	04-11-2023
2		A One-Week Workshop on Data Science using Python	30-10-2023 to 04-11-2023
3		LBRCE - ACM Student Chapter Inauguration	16-09-2023

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".

S. NO	ACADEMIC YEAR	EVENT NAME	EVENT DATE
1	2023-2024	Engineering's Day	15-09-2023
1	2022-2023	ACG 2022-2023 Report	25-03-2023
3		Paper Presentations	25-03-2023
4		Technical Quiz	25-03-2023
5		Mock Interviews	25-03-2023
6		Coding Contest	25-03-2023
7	2021-2022	LET'S Crack It	01-02-2021
8		A Guest Lecture on 'Career as a Software Engineer'	27-01-2021
9		"Test Your Programming – A National Level Technical Quiz"	07-08-2020
10	2019-2020	Coding Contest to II Sem Students (Programming)	16-03-2020
11		Coding Contest to II Sem Students (Quiz)	04-03-2020
12		Mock Interviews	10-12-2019
13		Coding Contest	10-12-2019

MACHINE LEARNING CLUB

To increase awareness among the students about machine learning applications. Educate members on what exactly is ML and its possibilities. Developing the interests of members in ML. To make use of publicly available data sets and libraries in order to demonstrate the applications.

S. NO	ACADEMIC YEAR	EVENT NAME	EVENT DATE
1	2023-2024	Technothon – 2.0	14-09-2023
2	2022-2023	Logo Launch & Paper Presentations	20-09-2022

PUBLISHED PAPERS BY OUR FACULTY

01 Cross-Site Request Forgery as an Example of Machine Learning for Web Vulnerability Detection

02 Telugu Spoken Digits Modeling using Convolutional Neural Networks

03 Task Scheduling Using TVIW-PSO in Cloud Computing

04 Detection and Classification of Pneumonia Using Deep Learning by the Dense Net-121 Model

05 Wielding Neural Networks to Interpret Facial Emotions in Photographs with Fragmentary Occlusions

Cross-Site Request Forgery as an Example of Machine Learning for Web Vulnerability Detection

This paper presents a strategy for discovering flaws in web applications through Machine Learning(ML). Web-based applications are especially troublesome to examine attributed to their variety and extensive usage of custom developmentmethodologies. As little more than a basis, machine learning is extremely useful in website safety: It just might combine cognitive knowledge of web app terminology with automated software approaches based on verbally reported information.

Mitch tool is the foremost machine learning strategy towards black-box investigation for Cross-Site Request Forgery (C.S.R.F) problems, was built using these principles. Mitch-helped us find Thirty-five recently developed cross-site request forgeries (C.S.R. Fs) in twenty wide fields, together with 3 main C.S.R. Fs in industry applications.

AUTHOR

Dr. M. Srinivasa Rao
Professor & Dean Academics

Telugu Spoken Digits Modelling using Convolutional Neural Networks

Automatic speech recognition is an attractive problem currently because of its applications in various areas such as IoT, Interactive voice recognition systems, mobile interfaces, etc. Digit recognition problem problem is an important task for aforesaid applications.

Since Telugu is a low-resourced language, the recognition problem has been addressed in a limited way. The spoken digit recognition is handled using Convolutional Neural Networks (CNNs) by understanding the nature of speech signals through Mel Frequency Cepstral Coefficients (MFCCs).

We observed the approach performed with a recognition rate of 73%. The proposed approach and the obtained results are discussed in the paper.

AUTHOR

Dr. P. Bhagath
Professor

Task Scheduling Using TVIW-PSO in Cloud Computing

Cloud with increased resource usage is crucial to decrease expenses. Regarding cloud computing, the resource allocation and scheduling tasks playa Important role in the quest for cost-efficiency, maximizing resource utilization within cloud environments is key.

This is where optimizing task scheduling comes in, and a promising approach emerges a multi- variant particle swarm optimization this explores PSO’s adaptability to task scheduling, highlighting its ability to improve load balancing, reduce execution time, and improve resource allocation in cloud environments, further refining its effectiveness in cloud task scheduling.

It’s a promising avenue for achieving cost-effective and high-performance cloud operations, paving the way for a more efficient and scalable future.

AUTHOR

Dr B. Siva Rama Krishna
Assoc. Professor

Detection and Classification of Pneumonia Using Deep Learning by the Dense Net-121 Model

A chronic respiratory disease known as pneumonia can be devastating if it is not identified and treated in a timely manner. Deep learning has recently demonstrated considerable promise in the area of medical imaging and has successfully applied for a few image-based diagnosis tasks, including the identification and classification of pneumonia.

COVID-19 is becoming the major cause of the global rise in pneumonia cases. In this study, we created an automatic pneumonia diagnosis method, alsoknown as a CAD (Computer-Aided Diagnosis), which may significantly reduce the time and cost of collecting CXR imaging data. Further research and developmentin this area is needed to improve accuracy and reliability of these models and make them more accessible to healthcare providers. These models can provide fast and accurate results, with high sensitivity and specificity in identifying pneumonia in chest X- rays.

AUTHOR

Ms. P. Sarala
Sr. Asst. Professor

Wielding Neural Networks to Interpret Facial Emotions in Photographs with Fragmentary Occlusions

For many years, scientists have studied the way people express their emotions through bodylanguage and facial expressions. However, it is extremely difficult to accurately interpret the emotions of a person from just a single image. Interpreting facial emotions in photographs is a complex task.

It is now possible to use facial expression recognition in images to detect emotions such as happiness, sadness, anger, fear, surprise, and more. This research discusses the effectiveness of using neural networks to identify facial emotions in photographs with occlusions present. The challenges and opportunities that arise when neural networks are used in this context are explored. Additionally, insight is also provided into the best approach to accomplish the task.

AUTHOR

Mrs. B. Usha Rani
Sr. Asst. Professor

ARTICLES BY OUR STUDENTS

Ethical and Scalable Automation: A Governance and Compliance Framework for Business Applications

The popularization of applying AI in businesses poses significant challenges relating to ethical principles, governance, and legal compliance. Although businesses have embedded AI into their day-to-day processes, they lack a unified approach for mitigating its potential risks. This paper introduces a framework ensuring that AI must be ethical, controllable, viable, and desirable. Balancing these factors ensures the design of a framework that addresses its trade-offs, such as balancing performance against explainability.

A successful framework provides practical advice for businesses to meet regulatory requirements in sectors such as finance and healthcare, where it is critical to comply with standards like GPDR and the EU AI Act. Different case studies validate this framework by integrating AI in both academic and practical environments. For instance, large language models are cost-effective alternatives for generating synthetic opinions that emulate attitudes to environmental issues. These case studies demonstrate how having a structured framework could enhance transparency and maintain performance levels as shown from the alignment between synthetic and expected distributions.

This alignment is quantified using metrics like Chi-test scores, normalized mutual information, and Jaccard indexes. Future research should explore the framework's empirical validation in diverse industrial settings further, ensuring the model's scalability and adaptability

AUTHOR

Chitturi Yasvanth

III-Year, CSE-C

22761A05E2

Task Scheduling Using TVIW-PSO in Cloud Computing

As organizations increasingly migrate to cloud computing environments, the need for efficient resource allocation and task scheduling becomes critical for reducing operational costs and maximizing performance. In this context, Multi-Variant Particle Swarm Optimization (MVPSO) emerges as a promising solution. MVPSO builds upon the traditional Particle Swarm Optimization (PSO) algorithm, which mimics the social behavior of birds and fish to explore and exploit optimal solutions in a multi-dimensional space. By enhancing PSO with multiple variants, MVPSO adapts to specific challenges in cloud environments, particularly in optimizing task scheduling.

Effective resource allocation directly impacts the operational efficiency of cloud services. Poor allocation can lead to resource underutilization, increased execution times, and elevated costs. MVPSO addresses these issues by providing several key benefits Improved Load Balancing, Reduced Execution Time, Enhanced Resource Allocation, Adaptability to Dynamic Conditions, Energy Efficiency.

AUTHOR
T. Muralikrishna
20761A05C7

Blockchain-Enabled Electoral Process

There are numerous good effects of technology on oursocial lives. Creating an architecture that is globally connected around-the-clock makes it simple to access a wide range of resources and services. In addition, technology, such as the Internet, has fostered creativity and invention. The blockchain has the potential to be used in electronic voting systems.

Such a plan would aim to offer a decentralised architecture for the operation of conducting a fair election in order to determine the people's choice in creating a better democracy. Utilizing smart contracts, Ethereum stands out as an ideal choice for developing advanced,cost-effective, secure, transparent, and user-friendly e-voting systems. The Ethereum network, renowned for its consistency and widespread adoption, particularly excels in providing logical frameworks for smart contracts.

Essential qualities of an e-voting system, including security against duplicate votes and complete transparency while safeguarding attendee privacy, align seamlessly with Ethereum's capabilities. Choosing Ethereum ensures a robust foundation for creating trustworthy and efficient e-voting solutions, transparency, and user accessibility.

AUTHOR

A. Eswari

20761A05D2

Five Days Online Faculty Development Program on "Deep Learning and Its Applications"

Resource Person:

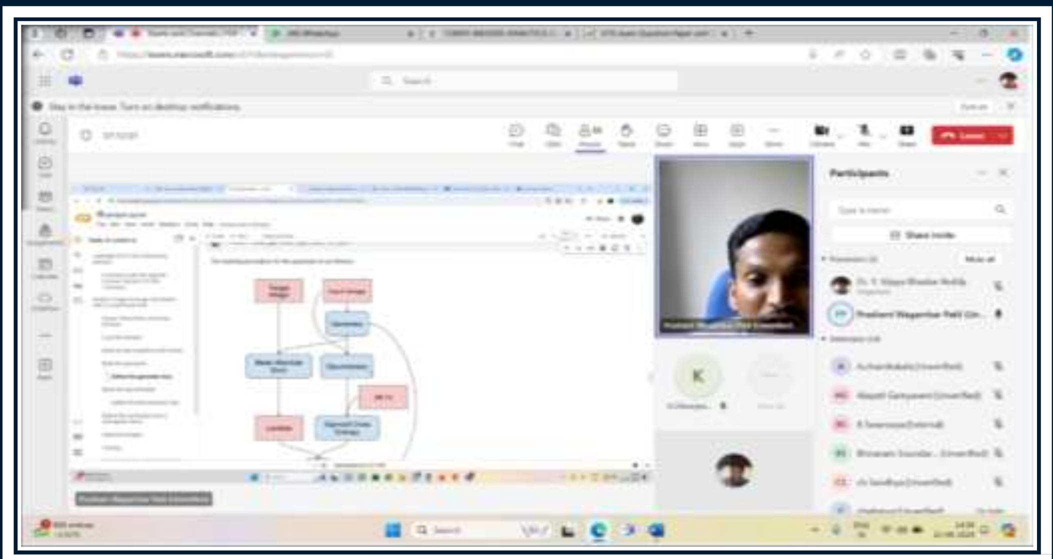
Event Date: 10th June 2024 – 14th June 2024

About The Event:

Lakireddy Bali Reddy College of Engineering (A) has organized A Five-Days Online Faculty Development Program on "Deep Learning and Its Applications" from 10th June–14th June 2024.

This training program was organized by Department of CSE and has received an overwhelming response with more than 200 registrations. Out of them, we have shortlisted only 109 participants from various prestigious institutes like IITs, NITs and State Universities.

Participants constitute a good mixture of Faculty, research scholars and PG students.



One Day Workshop on “Generative AI”

<u>Resource Person:</u>
<u>Event Date:</u> 20th March, 2024
<u>About The Event:</u>

Lakireddy Bali Reddy College of Engineering (A) conducted One Day Workshop on “Generative AI on 20th March 2024. The agenda included an introduction to generative AI, covering its definition, importance, historical background, and current applications. Technical foundations were discussed, including AI, machine learning, neural networks, and deep learning.

The session on generative models explored GANs, VAEs, and Transformers, explaining their theory and mathematics. A hands-on session enabled participants toset up the environment, build, train, and generate outputs with a simple generative model. Real-world examples and industry use cases were presented, followed by a discussion on ethical implications and career opportunities.

Student Participations:

Activity	No. of Students Participated				Total
	I Year	II Year	III Year	IV Year	
Co-Curricular Activities	-	3	10	-	13
Online Certifications (MOOCS/NPTEL etc.)	75	238	159	-	472
Extra-curricular activities- Sports & Games	142	247	194	53	636
Extra-curricular activities- Yoga	-	-	-	-	-
Cultural activities	-	13	09	-	22
Community Engagement-NSS	23	-	37	-	60
Community Engagement -NCC					
Community Engagement Community Service Projects	-	214	-	-	214

Student Awards & Achievements:

S. NO	ROLL NUMBER	NAME OF THE STUDENT	NAME OF THE EVENT	NAME OF THE ORGANIZATION INSTITUTE & PLACE	DATES	PARTICIPATION/ AWARD RECEIVED
1	21761A05H5 21761A05F8 22761A05E4 22761A05E3 22761A05A9	Mullangi Raju, Imandi Vasavi, D. Tirumala Ganesh, D. Harsha Vardhan, P. Saranya Durga	PSG iTECH HACKFEST (A national level Hackathon)	Chalapathi institute of technology	06 April 2024	Achieved and selected for next round
2	21761A0572 21761A05A3 21765A0519	B. Gracy B. Manisha U. Arjun	Innovation fair 2024	JNTUK, Kakinada	27,28 March 2024	Achieved 1st prize

Research and Development
Sponsored Research & Consultancy
Publications:
Journals(WoS/SCI/SCOPUS):
SCI Papers –05

1. Healthcare diagnostics with an adaptive deep learning model integrated with the Internet of medical Things (IoMT) for predicting heart disease, K.K.Baseer, K. Sivakumar, Duggineni Veeraiah, Gunjan Chhabra, Prasanna Kumar Lakineni, M. Jahir Pasha, Ramu Gandikota g, Gopakumar Harikrishnanh,Biomedical Signal Processing and Control, Volume 92, June 2024, 105988.
https://www.sciencedirect.com/science/article/abs/pii/S1746809424000466

2. Reliable and privacy-preserving multi-instance iris verification using Paillier homomorphic encryption and one-digit checksum, Mahesh Kumar Morampudi, Nagamani Gonthina, Sriramulu Bojjagani, Neeraj Kumar Sharma & Duggineni Veeraiah, Signal, Image and Video Processing,Feb-2024,ISSN.NO.1863- 1703.
https://link.springer.com/article/10.1007/s11760-024-03036-0

3. "Efficient Communication in Wireless Sensor Networks Using Optimized Energy Efficient Engroove Leach Clustering Protocol", N. Meenakshi, Sultan Ahmad, A. V. Prabu, J. Nageswara Rao, Nashwan Adnan Othman, Hikmat A. M. Abdeljaber, R. Sekar, Jabeen Nazeer, Tsinghua Science and Technology,Vol:29,Feb-24, pg No.985-1001,ISSN:1007-0214.
https://www.sciopen.com/article/10.26599/TST.2023.9010056

4. "Adaptive solar power generation forecasting using enhanced neural network with weather modulation",Sujeeth, T,Ramesh, C.b ,Palwe, Sushilac ,Ramu, Gandikotad , Shaik Johny Basha, Upadhyay, Deepak, Chanthirasekaran, K.Sivasankari, K. Rajaram, Journal of Intelligent & Fuzzy Systems, Mar-2024,1875-8967.
https://doi.org/10.3233/JIFS-235612

ESCI -04

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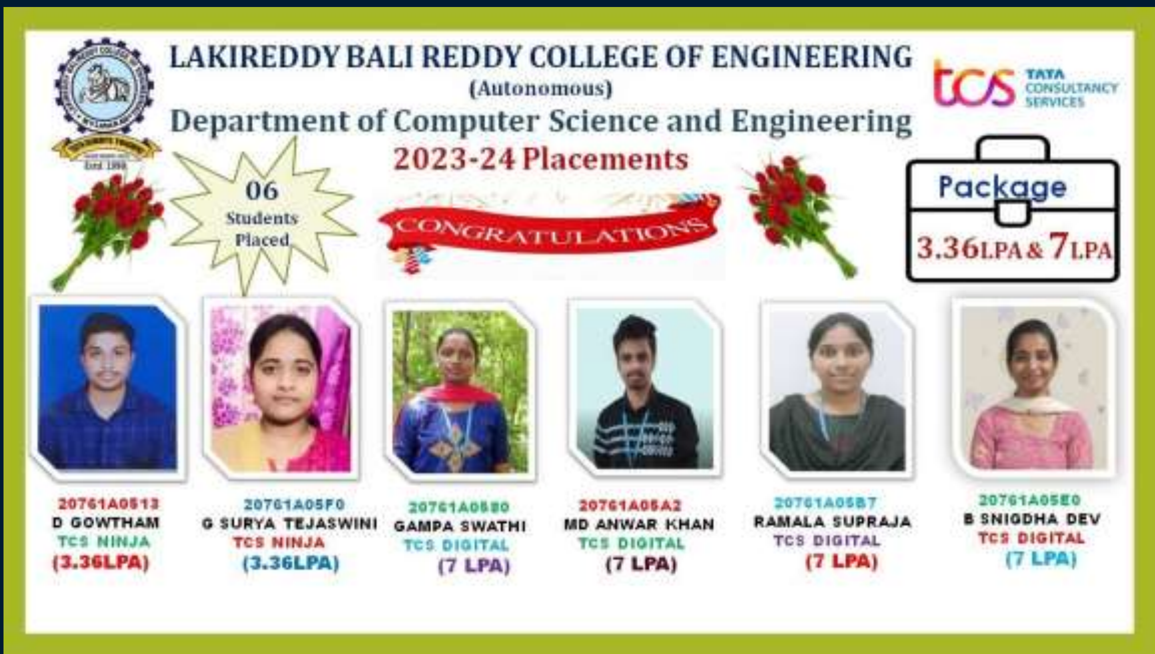
Books/Book Chapters:

S. No.	Authors	Title of the Book	Publisher	Published Date	ISBN
1	**Mr. D. Anil Kumar,** Mr. A. Sandeep Kumar, Mrs. K. Niveditha, Mr. Venkata Srinivasu Veesam	MACHINE LEARNING FOR BRAIN TUMOR IDENTIFICATION: PROGRESS AND BOTTLENECKS	Iterative International Publishers (IIP), Selfypage Developers Pvt Ltd.	May, 2024	978-93-6252-212-2
2	Dr. P.G.K. Sireesha, Dr. Venkata Kishore Kumar Rejeti, **Shaik Johny Basha**	SMART BRA DEVICE FOR DETECTING BREAST CANCER USING MACHINE LEARNING	Iterative International Publishers (IIP), Selfypage Developers Pvt Ltd.	2024	978-93-6252-212-2
3	Dr. Sumathy S, Dr. Princy Suganthi Bai S, Dr.Vudasreenivasarao, **Mr.Shaik Johny Basha (Editors)**	Futuristic Trends in Computing Technologies and Data Sciences, Volume 3, Book 7	Iterative International Publishers (IIP), Selfypage Developers Pvt Ltd.	2024	978-93-6252-212-2

S.No.	Patent Title	Applicants/ Inventors	Patent No.
1.	SYSTEM AND METHOD FOR SIM CARD TRAY AUTOMATIC EJECTION AND RETRACTION BY USER AUTHENTICATION	Arjun Uddagiri, Eswar Pragada, **Dr D Veeraiah,** Dr D Venkata Subbaiah, Yanduru Neha, Dr Satyanaryana Talam Dr Seelam Pichi Reddy **Dr. D. Veeraiah**	202341086939 A
2.	DEVELOPMENT OF MACHINE LEARNING DRIVEN 3D PRINTING TECHNOLOGY FOR THE CONSTRUCTION OF	Syed Sabihuddin Vandana Ahuja Dr. Nupur Mistry Dr. Gouri Desai Prince Sood Prof. (Dr.) Parul Goyal	202441039129 A
3.	IOT INTEGRATED SYSTEM FOR GAS LEAK DETECTION AND THREAT ZONE IDENTIFICATION AND METHOD EMPLOYED THEREOF	**DR. B. SIVARAMAKRISHNA,** IMANDI VASAVI, MULLANGI RAJU, DR. D. VEERAIAH, DR.K.DEVIPRIYA, DR.D.VENKATA SUBBAIAH, PAJJURI SARANYA DURGA	202441030458 A
4.	PREDICTIVE ANALYSIS OF STOCK MARKET TRENDS USING MACHINE LEARNING TECHNIQUES	Dr Bhavanam Amarnath Reddy, Sameer Yadav, Dr.Rais , Abdul Hamid Khan, Dr.IshratRasool Dr. Poonam Singh **Shaik Johny Basha,** Mr. Yogesh Kantilal, Sharma Ashish Diwakar, Vaishali Mishra ,Dr.R.Rajagopal, D. Kirubakaran Anthony, Savio, Herminio da PiedadeFernandes	202441013152A

PLACEMENTS

HCL (6)



TCS (6)

DELOITTE (3)

KJ SYSTEMS (5)

ACCENTURE (2)

TCS (6)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for their selection in the placement drive of
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20761A05G1
K VINAY KUMAR
20761A05H4
P JAHNAVI
20761A05I2
SHAIK NAGEENA

COGNIZANT (6)

Co – CURRICULAR ACTIVITIES

A National Level Hackathon conducted at CHALAPATHI INISTITUTE OF TECHNOLOGY on 6th April 2024

AVISHKAAR Student Innovations Competition at KLU, Guntur on March 2024

SNO	ROLL NUMBER	NAME OF THE STUDENT	AWARD
1	21765A0519	UDAGIRI ARJUN	3rd PRIZE
2	21761A0518	G SRINIVASA REDDY	Consolation Prize
3	21761A0542	P SAI RAM	Consolation Prize

NPTEL ACHIEVEMENTS

Details of NPTEL Certified Faculty in Jan-Apr 2024

TYPE OF CERTIFICATES	No. of Faculty Achieve
Elite + Gold	2
Elite + Silver	3
Elite	7
Topper	3
Successfully Completed	3
Total	18

Details of NPTEL Certified Students in Jan-Apr 2024

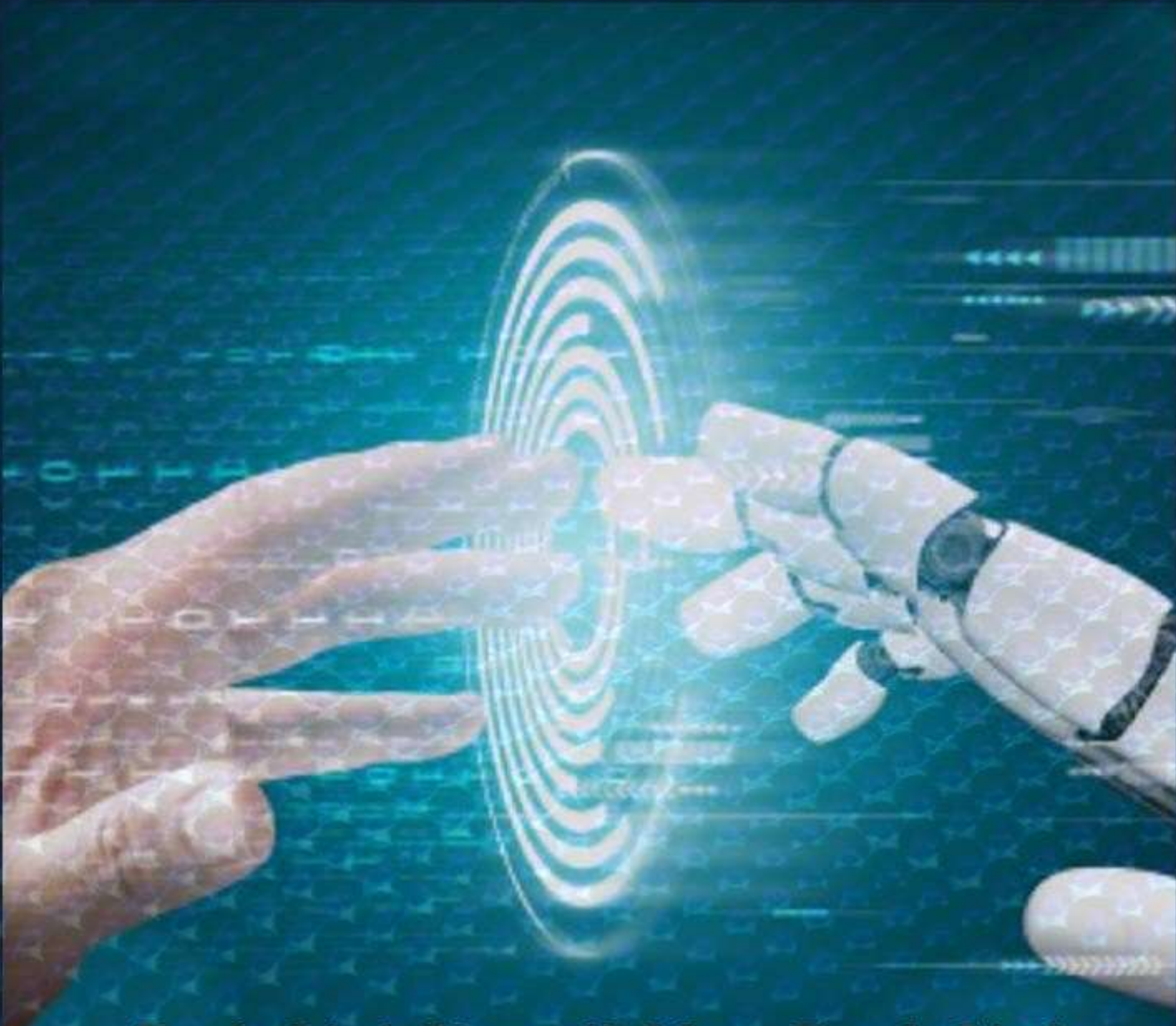
TYPE OF CERTIFICATES	No. of Students Achieve
Elite + Gold Topper 1%	5
Elite + Gold Topper 5%	85
Elite + Silver Topper 1%	248
Elite + Silver Topper 5%	8
Successfully Completed	163
Total	501

TECH PULSE TEAM

EDITOR-IN-CHIEF

EDITORS

STUDENT CO-ORDINATORS



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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