TECHTIMES

Department of Computer Science and Engineering
Marri Laxman Reddy Institute of Technology and Management
Dundigal, Hyderabad – 500 043, Telangana, India.

https://mlritm.ac.in

2024-2025

MARRI LAXMAN REDDY
Institute of Technology and Management

Computer Science and Engineering

2024-2025

ABOUT MLRITM

Marri Laxman Reddy Institute of Technology and Management (MLRITM), Hyderabad was established in 2009, by a devoted group of intellectuals, eminent professionals and industrialists, having a long and outstanding experience in educational field with a mission of spreading quality Education among students. Ever since its inception, it has transformed itself into a truly premier inter disciplinary technological institute and the college carved a niche for its unique infrastructure with a built-up area of three lakh square feet, having well-ventilated classrooms, state-of-the art laboratories, well maintained outdoor & indoor sports and games facilities.

The faculties are nationally and internationally recognized for its portfolio of high-quality education applied & theoretical research and rigorous analytics that prepare the students for global leadership positions. MLRITM recruits only distinguished academicians, research scientists and experienced faculty who have been carefully chosen from a pool of IITs, NITs, Universities and research organizations.

VISION OF THE INSTITUTE

To be a globally recognized institution that fosters innovation, excellence, and leadership in education, research, and technology development, empowering students to create sustainable solutions for the advancement of society.

MISSION OF THE INSTITUTE

- To foster a transformative learning environment that empowers students to excel in engineering, innovation, and leadership.
- To produce skilled, ethical, and socially responsible engineers who contribute to sustainable technological advancements and address global challenges.
- To shape future leaders through cutting-edge research, industry collaboration, and community engagement.

Sri. MARRI LAXMAN REDDY CHAIRMAN

Sri Marri Laxman Reddy, the founder Chairman of Marri Educational Group of Institutions has been in the field of education from the last 22 years with the aim of spreading quality education among children at the school & college level. Marri Laxman Reddy Institute of Technology & Management is the culmination of his dreams and was established during year 2009 by Marri Educational Society. He is also founder chairman of MLR Institute of Technology, MLR Institute of Pharmacy & St. Martin's Engineering College and St. Martin's schools at Balanagar, Chital and Malkangiri. He is a veteran athlete of international repute

Dr. P. SRIDHAR DIRECTOR

M. Tech., Ph.D., MISTE

Dr. P. Sridhar, M. Tech., Ph.D., MISTE, the Director, Marri Laxman Reddy Institute of Technology & Management, is young & dynamic Professor and achieved an immense exposure in Academic, Research and Administrative spheres at reputed Engineering Colleges. He contributed immensely for the growth of institutes by introducing the disciplinary innovative in the lifestyle of under graduate engineering students. He has established Institute Industry Interaction and Research & Development cells in the institute.

Dr. R. MURALI PRASAD PRINCIPAL

M. Tech., Ph.D., MISTE

Dr. R. Murali Prasad, M. Tech., Ph.D., MISTE, the Principal, Marri Laxman Reddy Institute of Technology & Management, is a young and dynamic Professor of ECE and has achieved immense exposure in Academic, Research and Administrative spheres at reputed Engineering Colleges. He contributed immensely to the growth of institutions by introducing disciplinary innovation in the lifestyle of undergraduate engineering students. He has established Institute–Industry Interaction and Research Development cells in the institute.

Dr. B RAVI PRASAD HOD

The department is headed by Dr. B Ravi Prasad, with teaching experience of 24 years. With his good research experience, he has guided many students and published research papers in thrust areas. He strives hard to organize various industry-oriented programs, which enable students to do internships and secure placements in reputed companies. Under his able guidance and dynamic leadership, the department has achieved the zenith of excellence.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ABOUT DEPARTMENT

The Department of Computer Science and Engineering (CSE) was started in the year 2010 with the introduction of the B. Tech program. The department began its journey with the aim of providing a strong foundation in computer science and technological innovation. Over the years, through its continuous commitment to academic excellence, modern teaching methodologies, and industry alignment, the intake has expanded to meet the growing demands of the industry.

In 2013, the department introduced the M. Tech program, creating opportunities for advanced learning, specialized training, and applied research in various domains of computer science. The postgraduate curriculum is designed to provide both theoretical depth and practical experience, fostering the ability to solve complex real-world problems through computational thinking and innovation.

The department has achieved a significant milestone by being recognized as a Research Centre by Jawaharlal Nehru Technological University Hyderabad (JNTUH). This recognition has enabled the department to expand its academic offerings and strengthen its focus on research in cutting-edge areas such as Artificial Intelligence (AI), Machine Learning (ML), Cybersecurity, Data Analytics, Cloud Computing, and Computer Networks.

To strengthen experiential learning and bridge the gap between academia and industry, the department is equipped with state-of-the-art Centers of Excellence and industry-supported laboratories. These include the AR/VR Lab, the Intel Unnati Lab, which provide exposure to immersive technologies, hardware-software integration, and IoT-based innovation. These laboratories not only enhance students' practical skills but also serve as incubation centers for innovative projects and research.

VISION OF THE DEPARTMENT

To empower the students to be technologically adept, innovative, self-motivated and responsible global citizens possessing human values and contribute significantly towards high-quality technical education by harmonizing innovation with sustainability.

MISSION OF THE DEPARTMENT

DM-1: To offer high-quality education in the computing fields by providing an environment where knowledge is gained and applied to participate in research, for both students and faculty.

DM-2: To develop problem-solving skills in students to be ready to deal with cutting-edge technologies of the industry.

DM-3: To make students and faculty excel in their professional fields by inculcating communication skills, leadership skills, and team-building skills through the organization of various co-curricular and extracurricular programs.

DM-4: To provide students with theoretical and applied knowledge and adopt an educational approach that promotes lifelong learning and ethical growth.

M.Tech

Program Outcomes (POs):

PO-1: An ability to independently carry out research /investigation and development work to solve practical problems

PO-2: An ability to write and present a substantial technical report/document

PO-3: Students should be able to demonstrate advanced proficiency in Computer Science and allied emerging areas of Engineering.

PO-4: Students should be able to identify, analyze, and effectively solve complex real-world problems by applying advanced computing concepts, while considering solutions from a global perspective.

PO-5: An ability to acquire and apply advanced technical knowledge, professional skills, and modern computing tools to develop sustainable solutions.

PO-6: An Ability to recognize the significance of lifelong learning and actively pursue continuous professional development by adapting technologies in emerging areas.

Program Educational Objectives (PEOs):

PEO-1:
Graduates will achieve professional excellence and success in the field of Computer Science and Engineering by applying strong technical foundations and problem-solving skills to contribute effectively to industry, academia, and entrepreneurship.

PEO-2:
Graduates will demonstrate a commitment to lifelong learning by continuously enhancing their knowledge and skills through professional development and self-directed learning to effectively adapt to evolving global challenges.

PEO-3:
Graduates of the Computer Science and Engineering program will actively pursue advanced research, contributing to the development of solutions for complex problems and the generation of new knowledge to effectively address real-world challenges.

PEO-4:
Graduates will exhibit professionalism, effective communication, leadership skills, and ethical responsibility while working in multidisciplinary teams to deliver computing solutions that address societal needs and contribute to sustainable development.

B. Tech

Program Outcomes (POs):

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

PO-2: **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems to reach substantiated conclusions using principles of mathematics, natural sciences, and engineering sciences.

PO-3: Design/Development of Solutions: Design solutions for complex engineering problems and develop system components or processes that meet specified needs while considering public health, safety, cultural, societal, and environmental factors.

PO-4: **Conduct Investigations of Complex Problems:** Use research-based knowledge and methods, including experiment design, data analysis, interpretation, and information synthesis, to provide valid conclusions.

PO-5: **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, for complex engineering activities with an understanding of their limitations.

PO-6: **The Engineer and Society:** Apply contextual knowledge to assess societal, health, safety, legal, and cultural issues and understand the responsibilities relevant to professional engineering practice.

PO-7: **Environment and Sustainability:** Understand the impact of engineering solutions in societal and environmental contexts and demonstrate knowledge of sustainable development principles.

PO-8: **Ethics:** Apply ethical principles and commit to professional ethics, responsibilities, and standards of engineering practice.

PO-9: **Individual and Teamwork:** Function effectively as an individual and as a member or leader in diverse and multidisciplinary teams.

PO-10: **Communication:** Communicate effectively on complex engineering activities with the engineering community and society through reports, design documentation, presentations, and clear instructions.

PO-11: Project Management and Finance: Demonstrate knowledge of engineering and management principles and apply them as a team member or leader to manage projects in multidisciplinary environments.

PO-12: **Life-Long Learning:** Recognize the need for and possess the ability to engage in independent and lifelong learning in response to technological advancements and changes.

Program Educational Objectives (PEOs):

PEO 1: To induce strong foundation in mathematical and core concepts, which enable them to participate in research, in the field of computer science.

PEO 2: To be able to become the part of application development and sustainability development by learning the computer programming methods, of the industry and related domains.

PEO 3: To Gain the multidisciplinary knowledge by understanding the scope of association of computer science engineering discipline with other engineering disciplines.

PEO 4: To improve soft skills which build the professional qualities, there by understanding the social responsibilities and ethical attitude.

Program Specific Outcomes (PSOs):

PSO-1: Applications of Computing: Ability to use knowledge in various domains to provide solution to new ideas and innovations.

PSO-2: Programming Skills: Identify required data structures, design suitable algorithms, develop and maintain software for real world problems.

PSO-3: Entrepreneur and higher studies: Make use of computational and experimental knowledge for creating innovative career paths, to be an entrepreneur and desire for higher studies

LIST OF ALL THE ACTIVITIES CONDUCTED BY THE DEPARTMENT

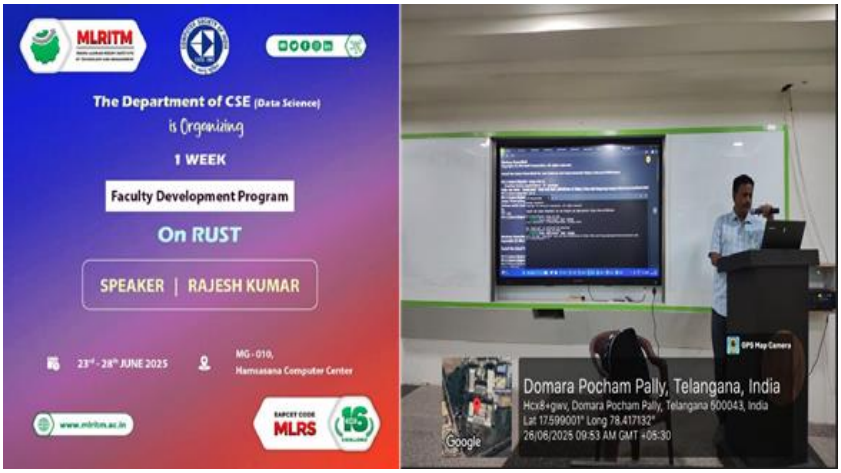
S No	Topic Name	Date		Duration	Resource Person with Designation
		From	To		
1	Workshop on Agritech E-Commerce Portal	06-Dec-24	07-Dec-24	2 Days	Dr. B Ravi Prasad, Professor
2	Workshop on Python with Django Database Framework	18-Jul-24	20-Jul-24	3 Days	Dr. Abdul Basith Khateeb, Associate Professor
3	Workshop on IoT Networking Protocols and Communication	11-Nov-24	13-Nov-24	3 Days	Dr. A Arun Kumar, Professor
4	Workshop on Cloud Essentials	14-Oct-24	15-Oct-24	2 Days	Dr. Venkat Reddy, Professor
5	Seminar on Competitive Programming and Problem Solving with Code Chef	03-Sep-24	03-Sep-24	1Day	Dr. M Nagalakshmi, Professor
6	Internal Smart India Hackathon– 24	31-Aug-24	01-Sep-24	2 Days	Mr. B Prasad, Associate Professor
7	Java Programming	09-Jun-2025	14-Jun-2025	6 Days	Mr. K. Shivarama Prasad Associate Professor Mr. Naresh Kumar Reddy Associate Professor
8	RUST	23-Jun-2025	28-Jun-2025	6 Days	Mr. Rajesh Kumar

MAJOR ACTIVITIES

FDP ON JAVA PROGRAMMING

The Departments of Computer Science and Engineering successfully conducted the Faculty Development Program titled "**JAVA PROGRAMMING**" scheduled from June **9th to June 14, 2025**, at MG 010, offering faculty members comprehensive practical training and depth knowledge of core Java programming concepts.

FDP ON RUST



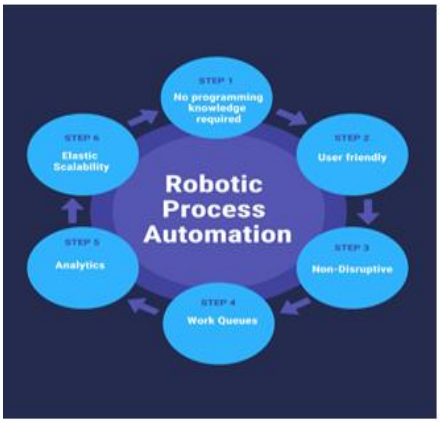
The Departments of Computer Science and Engineering successfully conducted the Faculty Development Program on "**RUST**" **Mr. RAJESH KUMAR**, an expert in systems programming and open-source technologies, will deliver an insightful session on the Rust programming language, scheduled from **June 23rd to June 28th, 2025**, at MG 010, offering faculty members through the fundamentals and advanced features of the Rust programming language.

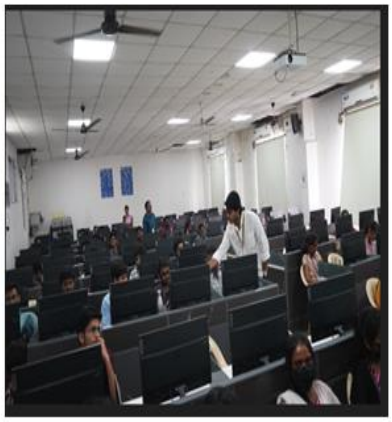
Voice Your Vision: Workshop on Research Presentation Excellence

A one-day workshop titled *"Voice Your Vision: Research Presentation Excellence"* was conducted **on 28th March 2025** by **Dr. Kabita Thaoroijam**, Associate Professor, Dept. of CS-AI, SR University, Warangal. The session focused on enhancing students' skills in effective research communication, presentation techniques, and professional delivery.

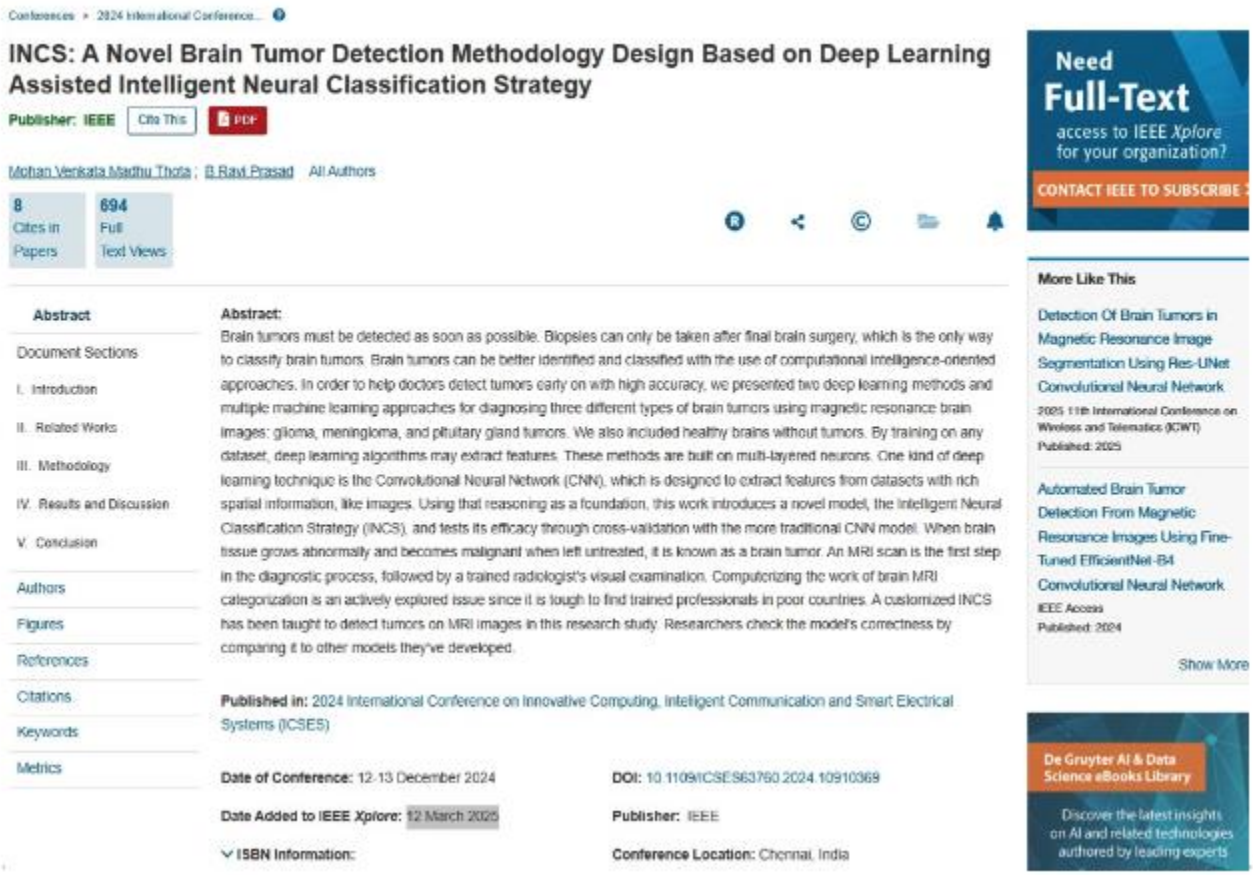
Guest Lecture on Robotic Process automation

A one-day **Guest Lecture on Robotic Process Automation (RPA)** was conducted on **13th March 2025** by **Mr. Tarun Chauhan, Data Scientist (IoT) at ASTI Infotech, Bangalore**. The session focused on the fundamentals of RPA, its applications in automating business processes, and its growing role in enhancing operational efficiency.





STUDENT PUBLICATION



Conferences > 2024 International Conference...

INCS: A Novel Brain Tumor Detection Methodology Design Based on Deep Learning Assisted Intelligent Neural Classification Strategy

Publisher: IEEE | Cite This | PDF

Mohan Venkata Madhu Thota ; B Ravi Prasad All Authors

8 Cites in Papers | 694 Full Text Views

Abstract

Document Sections

I. Introduction

II. Related Works

III. Methodology

IV. Results and Discussion

V. Conclusion

Authors

Figures

References

Citations

Keywords

Metrics

Abstract:
Brain tumors must be detected as soon as possible. Biopsies can only be taken after final brain surgery, which is the only way to classify brain tumors. Brain tumors can be better identified and classified with the use of computational intelligence-oriented approaches. In order to help doctors detect tumors early on with high accuracy, we presented two deep learning methods and multiple machine learning approaches for diagnosing three different types of brain tumors using magnetic resonance brain images: glioma, meningioma, and pituitary gland tumors. We also included healthy brains without tumors. By training on any dataset, deep learning algorithms may extract features. These methods are built on multi-layered neurons. One kind of deep learning technique is the Convolutional Neural Network (CNN), which is designed to extract features from datasets with rich spatial information, like images. Using that reasoning as a foundation, this work introduces a novel model, the Intelligent Neural Classification Strategy (INCS), and tests its efficacy through cross-validation with the more traditional CNN model. When brain tissue grows abnormally and becomes malignant when left untreated, it is known as a brain tumor. An MRI scan is the first step in the diagnostic process, followed by a trained radiologist's visual examination. Computerizing the work of brain MRI categorization is an actively explored issue since it is tough to find trained professionals in poor countries. A customized INCS has been taught to detect tumors on MRI images in this research study. Researchers check the model's correctness by comparing it to other models they've developed.

Published in: 2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)

Date of Conference: 12-13 December 2024

DOI: 10.1109/ICSES63760.2024.10910369

Date Added to IEEE Xplore: 12 March 2025

Publisher: IEEE

ISBN Information:

Conference Location: Chennai, India

Need Full-Text access to IEEE Xplore for your organization?

CONTACT IEEE TO SUBSCRIBE

More Like This

Detection Of Brain Tumors in Magnetic Resonance Image Segmentation Using Res-UNet Convolutional Neural Network

2025 11th International Conference on Wireless and Telematics (ICWT)
Published: 2025

Automated Brain Tumor Detection From Magnetic Resonance Images Using Fine-Tuned EfficientNet-B4 Convolutional Neural Network

IEEE Access
Published: 2024

Show More

De Gruyter AI & Data Science eBooks Library

Discover the latest insights on AI and related technologies authored by leading experts

The paper “INCS: A Novel Brain Tumor Detection Methodology Design Based on Deep Learning Assisted Intelligent Neural Classification Strategy” by Mohan Venkata Madhu Thota and B. Ravi Prasad was published in the 2024 ICSES Conference (IEEE) on 12–13 December 2024. The study proposes a deep learning-based model called INCS that uses CNNs to detect and classify brain tumors from MRI images. The model identifies glioma, meningioma, pituitary tumors, and healthy brain scans, helping doctors achieve faster and more accurate diagnosis. The results show that INCS is an effective tool for automated brain tumor detection.

LIST OF FACULTY PUBLICATIONS- RESEARCH ARTICLES AND BOOK CHAPTERS

1. Dr. M Nagalakshmi: -

1. **AI Driven Game Theory Optimized Generative CNN-LSTM Method for Fake Currency Detection** – *Journal of Theoretical and Applied Information Technology (Scopus Q2, ISSN: 1992-8645)*. Proposed an AI and game-theory-based CNN-LSTM model for detecting counterfeit currency.

2. **Revolutionizing Magnetic Resonance Imaging Reconstruction: A Unified Approach Integrating Deep Residual Networks and Generative Adversarial Networks** – *International Journal of Advanced Computer Science and Applications (Scopus Q2)*. Developed a hybrid deep learning approach to enhance MRI image reconstruction accuracy.

3. **Dimensionality Reduction Procedure for Green Bigdata in Machine Learning Techniques** – *Journal of Nonlinear Analysis and Optimization (UGC, ISSN: 1906-9685)*. Focused on optimizing big data processing using dimensionality reduction in machine learning.

4. **An Object Detection Method on License Plate Detection Using YOLOv5** – *Journal of Nonlinear Analysis and Optimization (UGC CARE, ISSN: 1906-9685)*. Presented an efficient YOLOv5-based method for vehicle license plate detection.

5. **Pest Detection and Classification in Peanut Crops Using CNN, MFO, and EViTA Techniques** – *Journal of Library & Information Science (UGC, ISSN: 0972-2750)*. Developed an AI-based model for accurate pest detection and classification in peanut crops.

6. **DFFMD: A Deepfake Face Mask Dataset for Infectious Disease Era with Deepfake Detection Algorithms** – *Journal of Library & Information Science (UGC, ISSN: 0972-2750)*. Created a dataset and proposed deepfake detection algorithms for AI-based security research.

2. Dr. Brahma Reddy: -

1. **Dimensionality Reduction Procedure for Green Bigdata in Machine Learning Techniques** – *Journal of Nonlinear Analysis and Optimization (UGC, ISSN: 1906-9685)*. Focused on optimizing big data processing and analysis using dimensionality reduction in machine learning.

2. **Human Emotion Classification Using KNN Classifier and Recurrent Neural Networks with SEED Dataset** – *Industrial Engineering Journal (UGC, ISSN: 0970-2555)*. Presented a hybrid machine learning and deep learning approach for accurate emotion recognition.

3. **An Object Detection Method on License Plate Detection Using YOLOv6** – *Journal of Nonlinear Analysis and Optimization (UGC, ISSN: 1906-9685)*. Proposed an efficient object detection model for vehicle license plates using YOLOv6.

4. **An SVM-Based Approach for Emotions Identification Using EEG Signals** – *Industrial Engineering Journal (UGC, ISSN: 0970-2555)*. Focused on emotion detection from EEG signals using Support Vector Machine techniques.

5. **Pest Detection and Classification in Peanut Crops Using CNN, MFO, and EViTA Techniques** – *Journal of Library & Information Science (UGC, ISSN: 0972-2750)*. Developed an AI-based model for detecting and classifying pests in peanut crops.

6. **DFFMD: A Deepfake Face Mask Dataset for Infectious Disease Era with Deepfake Detection Algorithms** – *Journal of Library & Information Science (UGC, ISSN: 0972-2751)*. Created a deepfake face mask dataset and proposed detection algorithms for enhanced cybersecurity and AI research.

3. Dr. T.S. Sreenivas: -

1. **2D-CNN and Auto Encoder-Based Gas Detection in Hyper Spectral Images: A Deep Learning Approach** – *RBJILS (UGC, ISSN: 0972-2750)*. Proposed a deep learning framework using 2D-CNN and autoencoders for accurate gas detection in hyperspectral images.

2. **Enhancing Intrusion Detection Systems with Explainable AI for False Positive Identification** – *RBJILS (UGC, ISSN: 0972-2750)*. Improved IDS performance by integrating explainable AI techniques to reduce false positives.

3. **Advanced Medical Image Segmentation Using a Modified U-Net Deep Learning Architecture for Improved Precision and Efficiency** – *RBJILS (UGC, ISSN: 0972-2750)*. Developed a modified U-Net architecture to enhance precision and efficiency in medical image segmentation.

4. **Improving Asphalt Crack Classification Accuracy Post-Earthquake Using a Novel Feature Selection Algorithm** – *JNAO (UGC)*. Introduced a feature selection method to improve post-earthquake asphalt crack detection and classification.

5. **Facial Feature-Based Drowsiness Detection Using a Multi-Scale Convolutional Neural Network** – *JNAO (UGC)*. Proposed a multi-scale CNN model for real-time drowsiness detection using facial features.

6. **Alzheimer's Disease Diagnosis Using CNN Analysis of Hippocampal Slices in MRI Images** – *JNAO (UGC, ISSN: 1906-9685)*. Developed a CNN-based approach for early Alzheimer's diagnosis through MRI hippocampal slice analysis

4. Dr. Venkata Reddy Medikonda: -

1. **Enhancing Intrusion Detection Systems with Explainable AI for False Positive Identification** – *RBJILS (UGC, ISSN: 0972-2750)*. Improved IDS performance by integrating explainable AI to reduce false positives.

2. **Advanced Medical Image Segmentation Using a Modified U-Net Deep Learning Architecture for Improved Precision and Efficiency** – *RBJILS (UGC, ISSN: 0972-2750)*. Proposed a modified U-Net model to enhance accuracy and efficiency in medical image segmentation.

3. **Improving Asphalt Crack Classification Accuracy Post-Earthquake Using a Novel Feature Selection Algorithm** – *RBJILS (UGC)*. Introduced a feature selection method to enhance asphalt crack detection after earthquakes.

4. **Facial Feature-Based Drowsiness Detection Using a Multi-Scale Convolutional Neural Network** – *JNAO (UGC)*. Developed a multi-scale CNN approach for real-time detection of driver drowsiness.

5. **Alzheimer's Disease Diagnosis Using CNN Analysis of Hippocampal Slices in MRI Images** – *JNAO (UGC, ISSN: 1906-9685)*. Applied CNN techniques for early and accurate Alzheimer's diagnosis through MRI hippocampal slices.

6. **Enhanced Hyperspectral Image Classification Using Multi-Scale Residual Depth wise Separable Convolutional Networks with Advanced Feature Extraction and Selection Techniques** – *International Journal of Information Technology, Springer (Q2)*. Proposed a deep learning model with advanced feature extraction and selection for hyperspectral image classification.

5. Dr. V. Dinesh: -

1. **Phishing Website Detection Using Novel Integration of BERT and XLNet with Deep Learning Sequential Models** – *Indonesian Journal of Electrical Engineering and Computer Science (UGC)*. Proposed a hybrid deep learning approach combining BERT and XLNet for accurate phishing website detection.
2. **Enhanced Jaya Optimization Algorithm with Deep Learning Assisted Oral Cancer Diagnosis on IoT Healthcare Systems** – *Journal of Intelligent System and Internet of Things (UGC)*. Developed an IoT-based healthcare model integrating deep learning with Jaya optimization for early oral cancer diagnosis.
3. **An Enhanced Early Detection and Risk Prediction of Brain Tumors Using MRI/CT Scans with Deep Learning Technique** – *Journal of Theoretical and Applied Information Technology (Scopus Q2, ISSN: 1992-8645)*. Proposed a deep learning model for early detection and risk prediction of brain tumors from MRI and CT images.

6. Dr. Pratap Singh published a study on *accident prevention in traffic and industrial environments* using a **hybrid YOLOv5-CNN framework with Grey Wolf Optimization** in **Frontiers in Health Informatics (Scopus, ISSN: 2676-7104)**. The work focuses on enhancing real-time object detection and safety monitoring to reduce accidents.

7. Mr. G. Sunil Santhosh Kumar published a study on *automatic rule discovery for data transformation* using a **fusion of diversified feature formats** in **Computers, Materials & Continua (UGC, ISSN: 1546-2226)**, focusing on enhancing data preprocessing and feature engineering in machine learning workflows.

8. Mr. CH.V.V. Narasimha Raju

1 Published a study on *cloud computing networks for remote sensing-based climate detection* using **machine learning algorithms** in **Remote Sensing in Earth Systems Sciences (Scopus Q2, ISSN: 2520-8195)**, focusing on enhancing climate monitoring and prediction accuracy.

2 Published a study on *enhancing emotion prediction* using **deep learning and distributed federated systems with SMOTE oversampling** in the **Alexandria Engineering Journal (SCI Q2)**, focusing

on improving emotion recognition accuracy with balanced and collaborative learning approaches.

9. **Mr. Sathiamoorthy** published a study on *WSN-based detection and prevention of attacks in VANETs* in **AIP Conference Proceedings (Scopus Q2, ISSN: 2222-315)**, focusing on enhancing security and reliability in vehicular ad hoc networks.

10. **Mrs. Ch Sravani** presented a study on *brain tumor classification and discovery* using **ensemble deep learning** at the **2nd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON 2024, IEEE, ISSN: 1069-8844)**, focusing on improving accuracy and reliability in medical image analysis.

11. **Mr. Gunna Manoj** published a study on *meta-heuristic image optimization in LiDAR sensors* using **cloud IoT networks and deep learning algorithms** in **Remote Sensing in Earth Systems Sciences (Springer, Q2)**, focusing on improving remote sensing data processing and accuracy.

INTERNATIONAL CONFERENCES

1. Dr. K Abdul Basith presented "A Logical Development of Phishing Attack Detection" at the 2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES).

2. Dr Nagalakshmi M. presented a blockchain-based smart-contract model for real-estate sales at ICCCMLA 2024, promising greater efficiency and transparency.

3. Dr. Madhu Shekar Yadla presented a comprehensive analysis of cloud-computing technologies and their applications in education and HR at ICSTEM 2024.

4. Dr. Brahma Reddy A. presented a fuzzy-logic (FL/FC) based support system for healthcare applications at ICACITE 2024, enhancing decision-making and efficiency in medical services.

5. Dr. Brahma Reddy A. presented a framework for reliability assessment using artificial intelligence at ICACITE 2024, improving predictive accuracy and system evaluation.

6. Dr. Brahma Reddy A. presented an MPLS-based framework for secure and optimized data transmission across cloud environments at ICACITE 2024.

7. Dr. Brahma Reddy A. proposed AI-based adaptive protocols to optimize energy efficiency and reduce latency in IoT devices under fog-edge computing environments.

8. Dr. T. S. Sreenivas proposed AI-based adaptive protocols to improve energy efficiency and reduce latency of IoT devices in fog/edge computing environments.

9. Dr. V. Dinesh compared multiple machine-learning algorithms for predicting chronic renal disease at ICCIGST 2024, aiming to identify the most effective model for early detection.

10. Dr. V. Dinesh presented an ensemble-model approach for improved cardiovascular risk prediction at ICISAA 2024, aiming to boost early detection accuracy

11. B. Nagesh presented a machine-learning–based method for heavy rainfall prediction using satellite data at the 2024 International Conference on Smart Electronics and Communication (ICOSEC).

12. B. Nagesh explored AI-driven data-encryption solutions for wireless sensor networks in 2024 — proposing enhanced security strategies for WSN / IoT communication.

13. Mrs. A. Shalini presented the paper "Classification of Brain Disorder Diseases Using Machine Learning Based Data Mining Techniques" *at the* 2024 International Conference on Science, Technology, Engineering and Management (ICSTEM 2024).

LIST OF FACULTY PATENTS

1. Dr T.S. Sreenivas published a patent on 06/09/2024 titled “A Framework for Protecting Multimedia Content 4D over Public Cloud from Pirating”.

2. Dr. M. Nagabhushana Rao published a patent on 20/12/2024 titled “Intelligent Deep Learning Architecture Integrating Semantic and Instance Segmentation for Precision Object Detection”.

3. Dr. M. Nagabhushana Rao published a patent on 06/09/2024 titled “A Framework for Protecting Multimedia Content 4D over Public Cloud from Pirating”.

4. Dr. Madhu Sekhar Yadla published a patent on 06/09/2024 titled “A Framework for Protecting Multimedia Content 4D over Public Cloud from Pirating”.

5. Mrs. Alajangi Shalini published a patent on 04/10/2024 titled “Machine Learning Algorithm for Real Time Quality Control in Pharmaceutical Manufacturing Processes”.

6. Mr. Yannam Apparao published a patent on 06/09/2024 titled “A Framework for Protecting Multimedia Content 4D over Public Cloud from Pirating”.

7. Dr T.S. Sreenivas published a patent on 20/12/2024 titled “Intelligent Deep Learning Architecture Integrating Semantic and Instance Segmentation for Precision Object Detection”.

8. Dr. Aluri Brahma Reddy published a patent on 22/11/2024 titled “An AI Based Method for Early Detection of Cervical Cancer”.

9. Dr. B. Praveen published a patent on 20/12/2024 titled “Intelligent Deep Learning Architecture Integrating Semantic and Instance Segmentation for Precision Object Detection”.

10. Mr. Yannam Apparao published a patent on 20/12/2024 titled “Intelligent Deep Learning Architecture Integrating Semantic and Instance Segmentation for Precision Object Detection”.

11. Mrs. Chekka Sravani published a patent on 31/07/2025, titled “An Intelligent Risk Assessment System for Predicting Healthcare Attacks Using Reinforcement Learning on Network Traffic

LIST OF FACULTY FDP's

S.NO	NAME OF THE FACULTY	TOPIC	DATE
1	Dr. K. Abdul Basith	AI Tools	17-02-2025
2	Dr. K. Abdul Basith	"Fundamentals of Cybersecurity" from Zscalar academy	12-05-2025 to16-05-2025
3	Dr. Yusuf Mulgi	AI Tools	17-02-2025
4	Dr. Yusuf Mulgi	Inculcating Universal Human Values in Technical Education	17.02.2025 to21.02.2025.
5	Dr M Nagalakshmi	Zscalar Zero Trust cloud security	12-05-2025 to17-05-2025
6	Dr M Venkat Reddy	RUST	23-06-2025 to 28-06-2025
7	Dr Shaik Maheboob	NoSQL-Hands-On Learning" from Zscalar academy	16-06-2025 to 20-06-2025
8	Dr .Y. Madhu Sekhar	JAVA Full Stack with React JS & AI	02-12-2024
9	Dr. T.S. Srinivas	JAVA Full Stack with React JS & AI	02-12-2024
10	Mr .B Prasad	Machine Learning and Generative AI	22-07-2024
11	Mrs. M Pallavi Reddy	JAVA Full Stack with React JS & AI	02-12-2024
12	Mr .Y. Apparao	AI Tools	17-02-2025
13	Mr. G Sunil Santhosh Kumar	AI Tools	17-02-2025
14	Mr. B Prasad	STARTUPRENEURSHIP	20-06-2025 to24-06-2025
15	Mrs. M Pallavi	AI Agents	12-05-2025 to16-05-2025
16	Mr. A Satchidanandam	TensorFlow for Machine Learning	18-11-2024
17	Mr. A. Satchidanandam	JAVA Full Stack with React JS & AI	02-12-2024
18	Mr. K. Siva Rama Prasad	ML and DS Algorithms	08-07-2024
19	Mrs. A Shalini	ML and DS Algorithms	08-07-2024
20	Mrs. A Shalini	NEP 2020 Orientation & Sensitization Program	03-06-2024
21	Mrs. G Anitha	Machine Learning and Generative AI	22-07-2024
22	Mrs. S. Gowsia Bhanu	JAVA Full Stack with React JS & AI	02-12-2024
23	Mrs. S. Gowsia Bhanu	NEP 2020 Orientation & Sensitization Program	03-06-2024
24	Mrs. V Rajashree	AI Tools	17-02-2025

25	Mr. Y. Apparao	Zscalar Zero Trust cloud security	12-05-2025 to 17-05-2025
26	Mrs. K. Anusha	Smart Cities of Tomorrow: Leveraging AI for Urban Sustainability	16-12-2024
27	Mr. M. Venkatesh	DL Techniques	10-02-2025
28	Mrs. G. Renuka	JAVA Full Stack with React JS & AI	02-12-2024
29	Mr. B. Nagender Reddy	AI Tools	17-02-2025
30	Mr. B. Nagender Reddy	Machine Learning and Generative AI	22-07-2024
31	Mr. Ch. Krishna Mohan	Applications of AI & ML in Healthcare	09-12-2024
32	Mr. Ch. Krishna Mohan	Machine Learning and Generative AI	22-07-2024
33	Mr. Ch. Krishna Mohan	JAVA Full Stack with React JS & AI	02-12-2024
34	Mr. K. Srikanth	NEP 2020 Orientation & Sensitization Program	05-02-2025
35	Mrs. K. Kavitha	NEP 2020 Orientation & Sensitization Program	20-01-2025
36	Mr. K. Mohan	NEP 2020 Orientation & Sensitization Program	19-02-2025
37	Mr. B. Nagesh	NEP 2020 Orientation & Sensitization Program	05-08-2024
38	Mr. B. Nagesh	Android Basics with Compose	02-06-2025 to 06-06-2025
39	Mrs. K. Anusha	Inculcating Universal Human Values in Technical Education	17.02.2025 to 21.02.2025.
40	Mr. Tagoora Chary	JAVA Full Stack with React JS & AI	02-12-2024

LIST OF FACULTY CERTIFICATIONS

1. **Kastala Sandhya** successfully completed the NPTEL–AICTE FDP course on Database Management System with a consolidated score of 55%.
2. **Harika Koheda** successfully completed the NPTEL–AICTE FDP course on Database Management System with a consolidated score of 57%.
3. **Kastala Sandhya** successfully completed the NPTEL–AICTE FDP course on Python for Data Science with a consolidated score of 79%.
4. **Karimunnisa Shaik** successfully completed the NPTEL course “Outcome Based Pedagogic Principles for Effective Teaching” with a consolidated score of 52%.
5. **Kastala Sandhya** successfully completed the NPTEL course “Outcome Based Pedagogic Principles for Effective Teaching” with a consolidated score of 56%.

GALLERY

The CSE department of MLRITM organized the Internal Smart India Hackathon. Mr. B. Prasad, Associate Professor, guided students as they show cased innovative solutions to real-world problems, fostering creativity, team work, and problem-solving skills.

MLRITM conducted a workshop on Python with the Django Database Framework. This event provided valuable insights into coding and database management, enhancing participants &technical skills and knowledge.

MLRITM, in association with CSE, hosted a seminar on Competitive Programming and problem solving with Code Chef.

At MLRITM conducted a work shop on the Agritech E- Commerce Portal with the collaboration of CSE department.

At MLRITM conducted a Workshop on IoT Networking Protocols and Communication

At MLRITM conducted a Guest Lecture on “Database Programming with PL/SQL”.