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MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

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Department of Computer Science & Engineering

Ay 2025 – 2026 – R & D Details – SCI & ESCI- Journal Publication

1. Hemalatha, S.R., Sreedevi, M., Bhukya Govardhan Naik,Nakkeeran Ganasen, R. Nidhya. Machine learning-driven prediction of mechanical properties in fly ash-based geopolymer concrete incorporating silica fume and steel slag. *Asian Journal Civil Engg* (2026). https://doi.org/10.1007/s42107-026-01707-6- **Scopus - ESCI - Journal paper-Q2.**
2. Rameshkumar, G. Arunkumar, B. Aruna Devi & S. Senthil Pandi. "Enhanced plant disease classification via wild horse optimizer and convolutional attention-bidirectional long short term memory". Signal, Image and Video Processing 19, 1010 (2025). https://doi.org/10.1007/s11760-025-04556-z - - SCI – Q2
3. G. ArunKumar, Konatham Sumalatha, D. Saravanan, Anil Kumar Bisht, "Optimized temporal inductive path neural network based early-stage detection of autism spectrum disorders", Pattern Recognition, Volume 172, Part D, 2026. https://doi.org/10.1016/j.patcog.2025.112689. - **SCI journal** - Q1 - Impact Factor – 7.6
4. **Raju Sudhakar.**, & Venkateswara Rao, P. V.. SCLe-Net: Siamese Convolutional Le-Network for Hand Bone Age Estimation Using X-Ray Image. X-Ray Spectrometry, 2025. https://doi.org/10.1002/xrs.70037 - SCI – Q3
5. R.Sudhakar, Venkateswara Rao PV. ANFSq-Net: Adaptive neuro fuzzy inference system for lung cancer detection and severity level classification using CT image. Radiat Environ Biophys. 2026 Mar 17. doi: 10.1007/s00411-026-01205-y. – **Journal – (SCIE) Q2**
6. A Vidhya Sachithanandam, R.Senthamizh Selvi, **D.J. Ashpin Pabi**, Jorair Ahmad, Wireless channel equalization for the MIMO-OFDM model using a hybrid deep learning architecture, Ain Shams Engineering Journal, Volume 17, Issue 7,2026,104252,ISSN 2090-4479, https://doi.org/10.1016/j.asej.2026.104252. – SCIE -Q1
7. Hemanand Chittapragada , Saggurthi Ramesh, and Sivaramaiah Yenugu,Brain Tumor Classification and Severity Identification Using Deep Convolutional Spiking U-Net Lyrebird Neural Network and Alpha Piecewise Linear-Fuzzy, Cancer Biotherapy and Radiopharmaceuticals, https://doi.org/10.1177/108497852614311. - **Scopus - SCIE - Journal paper-Q2**
8. M. Sriraghavendra, M. Elsadig, I. H. Jaghdam, S. Abdel-Khalek, B. Galeebathullah and S. Alkhalaf, "Knowledge Improved Hybrid DNN–KAN Framework for Intrusion Detection in Wireless Sensor Networks," in IEEE Access, vol. 13, pp. 127558-127569, 2025, doi: 10.1109/ACCESS.2025.3586783. – **IEEE Access - SCI – Q1**
9. Mohideen AbdulKader, M., Nallusamy, K., **Renuka, G.B.** *et al.* Hardware-Efficient Modified AES Architecture with AI-Optimized S-Box for Lightweight Applications. *SN COMPUT. SCI.* **7**, 542 (2026). https://doi.org/10.1007/s42979-026-05151-w. - **Scopus - ESCI - Journal paper-Q2**
10. Komal Kumar Napa, Sangeetha Murugan, J.Senthil Murugan, A. Jayanthi, BRAIN-META: A reproducible CNN–vision transformer meta-ensemble pipeline for explainable brain tumor classification,MethodsX, Volume:16,2026,103769, ISSN:2215-0161 https://doi.org/10.1016/j.mex.2025.103769. - **ESCI - Journal paper . Q2**
11. Pandey, A., Hanumanthakari, S., **Anandaraj**, B. et al. A hybrid approach for energy management systems in grid tied microgrids using Kepler optimization algorithm and motif-

based heterogeneous graph attention network. Energy Syst (2026). https://doi.org/10.1007/s12667-026-00791-6 - **Journal paper - Q1 - SCI.**

12. V. Uma Rani, R. Kaladevi, Shanmugasundaram Hariharan, D. Ramalingam, Enhancing transparent diagnosis of cognitive impairments through advanced electroencephalography classification and explainable artificial intelligence techniques,Engineering Applications of Artificial Intelligence, Volume 173,2026,114432, ISSN 0952-1976,https://doi.org/10.1016/j.engappai.2026.114432 – (SCIE)– Journal – Q1
13. Dilip Charaan R. M., Leena Jenefa, Namita Mishra, Syed Ismail Abdul Lathif, Thangarasan T., N. Dilip Raja. Non-contact Real Time Digital Distance Measurement System for Vehicle Applications. Journal of Polymer and Composites. 2025; 13(02):670-678. – **ESCI Journal**
14. Jain, R.; Varshney, N.; **Durgarao, M.S.P.**; Maurya, S.K.; Mehta, D.K.; Kundu, A.; Halder, M.; Verma, A. Deep Learning-Based Volatility Forecasting, Portfolio Management, and Reinforcement Learning-Based Risk Optimisation. National Academy Science Letters, Springer Nature . 2026, 1–6, https://doi.org/10.1007/s40009-025-01914-w. – Journal Paper – Sci – Q3
15. **Palaniappan, Ramya.**, Delshi Howsalya Devi, R., Mathankumar, M., & Ilangovan, K. (2025). MRI-based detection of multiple sclerosis using an optimized attention-based deep learning framework. Neurological Research, 1–16. https://doi.org/10.1080/01616412.2025.2527899 - **SCI journal** - Q2

R & D Coordinator

Head of Department

Head of the Department
Computer Science & Engineering
Madanapalle Institute of Technology & Science
MADANAPALLE-517 325.

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Department of Computer Science & Engineering

Ay 2025 – 2026 – R & D Details –Book Chapter Publication

1. Edagotti Lakshmi Devi, **G. ArunKumar**, Patchava Lakshmi , Chapter 7 ; Title : Optimized hybrid machine learning techniques for predictive analysis of lung cancer (2026). Book chapter Title : Smart Technologies and Intelligent Computing (1st ed.). CRC Press. https://doi.org/10.1201/9781003666929
2. **Arunkumar G**, R. Rajesh, S. Vignesh, Arul Prakash A, D Saravanan and R Parthiban, IoT-Based Indoor Navigation System: Emphasizing Data-Driven Insights for Enhanced User Experience., Embracing the Digital Horizon: Advanced AI and Intelligent Systems for Transformative Commerce and Management **Pp:** 146-153 (8)., **DOI:** 10.2174/9798898814441126060016.
3. Deepak Gupta., **R. Sudhakar.** Rita Kadam,: Anurag Kumar., Prashant Ahire., Kapil Gupta **Chapter Title** : The Potential of Generative AI in Drug Development **Book Title**: Applications of Artificial Intelligence in Pharmaceuticals,2025 : DOI: 10.4018/979-8-3373-2043-4.ch005.
4. Dilip Sisodia ., Garima Joshi .,P.Kaliyamoorthy., Ankur Gupta Sabyasachi Pramanik : **Chapter Title** : Opening Up the Next Generation of Convolutional Neural Networks (CNN) for Palm Recognition **Book Title**: Real-Time Data Decisions With AI and ChatGPT Techniques,2025 : DOI: 10.4018/979-8-3693-2284-0.ch011.
5. Todmal, A.D., Veeraiah, V., Dahiya **Renuka, G.B.**, Gupta, A. and Pandey, J.K. (2025). Computational Intelligence and Image Processing in Quality Evaluation of Agricultural Products. In Computational Intelligence and Image Processing in Agriculture (eds J.K. Pandey, M. Rai and T. Sarkar). https://doi.org/10.1002/9781394320905.ch16.
6. **T Thangarasan**, R Keerthana, J Nagaraj, S Vani, R.M. Dilip Charaan - Exploring Novel Directions in Edge Intelligence for Industrial Internet of Things (IIoT) - Book chapter title , Book name : Edge Intelligence for 6G-Enabled Industrial Internet of Things, Publisher Wiley, Publication Date 29 May 2026 DOI : 10.1002/9781394305414.ch11.
7. **Balakrishnan**, T.P., Charani, A.L., Sree, B.L., Nikhitha, P.V. (2026). Leaf Guard: Harnessing Deep Learning for Early Detection of Tea Leaf Diseases. In: Dutta, P.K., Singh, R., Haghi, A.K., Hamad, A.A. (eds) Harnessing AI to Reshape the Future of Agriculture. Springer, Cham. https://doi.org/10.1007/978-3-032-12118-9_36.

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Department of Computer Science & Engineering

Ay 2025 – 2026 – R & D Details –Conference Publication (Scopus Indexed)

1. P. Deekshitha, **Nidhya R,** Blockchain-Based Secure Data Sharing Framework for Multi-Party Collaboration in Distributed Systems, International Conference on Computational Methods in Science & Technology (ICCMST'25), August 2025. – Conference Paper. – Book Chapter

2. Reddem Yaswanthreddy, R. Nidhya, D.J. Ashpin Pabi, Penjuri Deekshitha ,Hybrid AI Models for Real-Time Intrusion Detection in Large-Scale Big Data, International Conference on Computational Methods in Science & Technology (ICCMST'25), August 2025. – **Conference Paper. -Book chapter**

3. G. Arunkumar; Shaik Arfa Ameena; M. Gaythri; P. Afra Anjum; Shaik Aiman Anjum., Ensemble classification for improved lung cancer detection: A comparative study., AIP Conference Proceedings 3257, 020129 (2025) , https://doi.org/10.1063/5.0265856 – **International Conferences**

4. **G. Arunkumar**; Jilakara Madhu; S. Harshavardhan; P. Tharun Kumar; G. Radhakrishna., AI-powered surveillance for detecting helmetless bike riders using YOLO., AIP Conference Proceedings. 3257, 020129 (2025) , https://doi.org/10.1063/5.0265856 – **International Conferences**

5. D. Saravanan; **G. ArunKumar**; Thangirala Dinesh Reddy; Ronda Thulasi; R. Rahin Batcha., Stolen mobile app detection on google play store using decision trees., AIP Conference Proceedings. 3257, 020129 (2025) , https://doi.org/10.1063/5.0265856 – **International Conferences**

6. D. Saravanan; **G. ArunKumar**; Singirikonda Umesh; E. Polam Naga Nooka Raju; S. Vignesh., Cutting-Edge validation system: A safe methodology integrating facial and manuscript passwords, image lattices, searching info retrieval and login activity pursuing with efficient database connectivity., AIP Conference Proceedings. 3257, 020129 (2025) , https://doi.org/10.1063/5.0265856 – **International Conferences.**

7. **R. Sudhakar**, N. V. Pallavi, G. Pushpa, A. P. Sasank Reddy and M. Purushotham, "Crop Yield Prediction Based on the Characteristics of Agricultural Environment," 2025 International Conference on Computational Robotics, Testing and Engineering Evaluation (ICCRTEE), Virudhunagar, India, 2025, pp. 1-6, doi: 10.1109/ICCRTEE64519.2025.11052989. – Conference Paper
8. **D. J. Ashpin Pabi,** R. Nidhya, D. Renuka, S. Salva, K. Sai Sushma, A. Rajesh "Enhancing Tuberculosis Detection with Deep Learning: A CNN-Based Approach with Data Augmentation and Regularization" ICITSM-Part I 2025, April 28-29, DOI: 10.4108/eai.28-4-2025.235781– **Conference Paper.**

9. **D. J. Ashpin Pabi,** R. Nidhya, Sidda Dhanuja, Bala Charitha Sai, P. Harikarthik Reddy, Mitta Bhavana "An Advanced Experimental Intelligent Assistant for Knowledge Management" ICITSM-Part I 2025, April 28-29.DOI: 10.4108/eai.28-4-2025.2357789. – **Conference Paper.**

10. V. K. Arumugam, A. A. K. Reddy, C. Anand, **D. J. Ashpin. Pabi**, C. Perumal and A. Madhan, "IoT-based Renewable Energy Integration and Optimization in Smart Power Grids," *2025 6th International Conference on Electronics and Sustainable Communication Systems (ICESC)*, Coimbatore, India, 2025, pp. 105-110, doi: 10.1109/ICESC65114.2025.11212457. – **Conference Paper.**
11. **Ashpin pabi . D. J**, K. S. Sandeep, S. R. K. Indarapu, S. K. S, D. Verma and T. Singh, "Assessment of Integration of PV System with Grid," 2026 IEEE 4th International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), Mathura, India, 2026, pp. 340-343, doi: 10.1109/PARC68365.2026.11453680. – **Conference Paper.**

12. Amudala, H., Sree Divya, K., Swarnalatha, S., Davanam, G., Malchi, S.K., Yethish, Y. (2026). Cloudburst Prediction System. Proceedings of Fifth International Conference on Advances in Computer Engineering and Communication Systems. ICACECS 2024. Smart Innovation, Systems and Technologies, vol 117. Springer, Singapore.- **Conferences paper**
13. E. Sharmila, **G. Sreenivasulu**, P. Charan, R. Mandal, H. Patil and D. Singh, "Advancing Precision Ocular Health Assessment through Artificial Intelligence-Based Detection of Retinoblastoma from Fundus Images," 2025 6th International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, 2025, pp. 1822-1828, doi: 10.1109/ICIRCA65293.2025.11089863– Conferences Paper

14. G. Charan Kumar, K. Sreevani, **G. Sreenivasulu** and L. S. Kumar Reddy, "Parallel Processing based Image Enhancing Technique Implementation on Low Cost FPGA," 2025 Third International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2025, pp. 1118-1122, doi: 10.1109/ICAISS61471.2025.11041963. – **Conferences Paper**
15. S. Dilli Babu, C. Nadhamuni Reddy, Errapaneni Gayatri, Sai Nomitha Yarabolu, A. V. Sriharsha, M. Sunil Kumar, D. Ganesh & Kuraku Nirmala (2026). **Mathematical Modeling of Student Performance Prediction Using Machine Learning Techniques**. Proceedings of the 6th International Conference on Data Science, Machine Learning and Applications- Volume 1. ICDSMLA2024 2024. Lecture Notes in Electrical Engineering, vol 1528. Springer, Singapore. https://doi.org/10.1007/978-981-95-5831-5_25 – **Conference Paper.**
16. P. Kiran Kumar, J. Suresh Babu, Sai Nomitha Yarabolu, A. V. Sriharsha, M. Sunil Kumar, D. Ganesh & Kuraku Nirmala., Leveraging AI for Personalized Learning: An Optimization-Based Approach., Proceedings of the 6th International Conference on Data Science, Machine Learning and Applications- Volume 1. ICDSMLA2024 2024. Lecture Notes in Electrical Engineering, vol 1528. Springer, Singapore. https://doi.org/10.1007/978-981-95-5831-5_26- – **Conference Paper.**

17. **S.Sowmyadevi** , Manikandan. R, "Improving Satellite Imagery using Artificial Intelligence," 2025 5th International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2025, pp. 1008-1012, doi: 10.1109/ICPCSN65854.2025.11035597. – **International Conferences**
18. **S Sowmyadevi**, J Harshith Sai, T R Deeksha, P Harshavardhan and Y Chandana, Plant Disease Detection using Convolutional Neural Networks (CNN) Algorithm" Grenze International Journal of Engineering and Technology , 2025 – **Conferences Paper**

19. **S. Sowmya Devi**, Kanugonda Sai Lavanya, Dudekula Rizwana and Yeddula Sai Rohitha: "Automated Bone Marrow Cell Classification for Haematological Disease using Machine Learning" Grenze International Journal of Engineering and Technology , 2025 – **Conferences Paper**

20. **S. Sowmyadevi**, B. Deepika, S. Deekshitha, M. A. Kumar, K. CharanSaiReddy and A. B, "A Multi-Modal Ensemble Framework for Imbalanced Dermoscopy: Metadata Fusion and Energy-Based Routing," *2026 6th International Conference on Trends in Material Science and Inventive*

10.1109/ICTMIM68190.2026.11506777. – IEEE – Conferences – students.

21. Sowmyadevi; Bellanganti Naveena; Gangarapu Pravalika; Navya Jangam; Reddappagari Nagamani; Anandaraj B, "Prediction on Patient Structured Data of Heart Disease using XGBoost, Stacking, and Explainable AI," *2026 International Conference on Smart Electronic Devices and Intelligent Systems (ICSEDIS)*, Chiramanangad, India, 2026, pp. 1651-1656, doi: 10.1109/ICSEDIS68157.2026.11518355. . – IEEE – Conferences – students

22. Sathish, K., Achari, B. Dileep Kumar,A. Deeven ,Ranganath, U. Bala,Dileep, B ., Malware Detection Using Machine Learning Techniques ., 16th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2025.,Volume: 2 Pages: 6164 – 6172 ,Conference Paper2025 EID: 2-s2.0-105034845999. – Conference Paper.
23. Hemanand. Chittapragada, G. Srikanth, M. R. Khan, P. C. Sekhar, C. V. L. Narayana and Ayushi, "Dynamic Anomaly Detection for Fire Alarm Fault Identification using a Fuzzy-CNN Based Approach," *2025 International Conference on Computing and Communications (COMPUTINGCON)*, Talegaon, India, 2025, pp. 1-6, doi: 10.1109/COMPUTINGCON64838.2025.11377461. – Conference Paper.
24. P. Reshma, V. Kasetti, M. S. R. Mangamani, **Hemanand C**, S. P. Kumar and U. K. Dosanapudi, "A Robust EfficientNet-B3 Framework for Smart Waste Classification with Focal Loss and Cosine Annealing," *2026 Sixth International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT)*, Bhilai, India, 2026, pp. 1-6, doi: 10.1109/ICAECT68478.2026.11426117. – Conference Paper.
25. Hemanand C, Sai Raj K; Salma V; Naveena V; Sai Kiran N, "Machine Learning-Based Toxicity Prediction Using Molecular Fingerprints," *2026 6th International Conference on Trends in Material Science and Inventive Materials (ICTMIM)*, Kanyakumari, India, 2026, pp. 418-424, doi: 10.1109/ICTMIM68190.2026.11506858. – IEEE – Conferences - Students.

26. C Praveen Kumar; Yousuf Hazaimeh; Aleemullakhan Pathan; M. Srinivasa Rao; Srilakshmi Aluri; B. Sathiya, "Advance Artificial Intelligence (AI) in Agricultural Robotics: A Deep Learning (DL) System for Crop Tracking, Yield Prediction, and Weed Identification," *2026 International Conference on Data Science, Agents and Artificial Intelligence (ICDSAAI)*, Chennai, India, 2026, pp. 1-6, doi: 10.1109/ICDSAAI69492.2026.11505178 – Conference Paper.
27. R. Gayathri, I. Kaur, P. N. S, S. Dhankhar, G. Renuka and T. Karthikeyan, "Blockchain-Supported Adaptive Hash Verification for Resilient Healthcare Data Integrity," 2025 2nd International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), Chennai, India, 2025, pp. 1-8, doi: 10.1109/ICECONF65644.2025.11379415. – Conference Paper
28. Bommy M; Pandipathi Thilak; Shaik Hussain Basha; Baigari Vamsi Krishna; Malathi Vikas Kumar, "Temporal Evolving Graph Neural Networks for Intrusion Detection in Large- Scale IoT Networks," 2026 3rd International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE), Chennai, India, 2026, pp. 1-6, doi: 10.1109/RMKMATE69073.2026.11518901. – IEEE – Conferences – students.

29. Jagadeesan D; Anandaraj B; Sreekanth S; Asha G; Y. Sreeraman and G. Manikandan, "Autonomous AI Controlled Cyber Attack Prediction System Design," 2025 6th International Conference for Emerging Technology (INCET), BELGAUM, India, 2025, pp. 1-6, doi: 10.1109/INCET64471.2025.11139939. – Conferences Paper

30. Anandaraj. B, S. Asma, U. Dhanalakshmi and R. Gayathri –,Brain Tumor Detection using Machine Learning,. 16th International Conference on Advances in Computing Control and Telecommunication Technologies Act 2025, Grenze International Journal of Engineering and Technology 2026 – Conference Paper – students .

Data using Machine Learning ,16th International Conference on Advances in Computing Control and Telecommunication Technologies Act 2025, Grenze International Journal of Engineering and Technology 2026 – Conference Paper – students

32. Anandaraj.B, B. Sireesha, B. Sirisha, S. Snehitha, R. Sreeja and **S.Sowmyadevi**, "An Attention-Enhanced Deep Learning Framework for Automated Detection and Classification of Tomato Leaf Fungal Diseases," 2026 Third International Conference on Networking and Communications (ICNWC), Chennai, India, 2026, pp. 1-10, doi: 10.1109/ICNWC68145.2026.11518098. – **IEEE – Conferences – students**

33. **Kumar Akuthota**, Saritha Anchuri, Yellaturu Deekshitha, R. Praveen Kumar Naidu, Bonthala Balaji & A. Basi Reddy (2026). Advanced Machine Learning for CAPTCHA Recognition: Evaluating the Efficacy of FlowCap-Net. In: Gunjan, V.K., Zurada, J.M. (eds) Proceedings of 6th International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications. ICMISC 2025. Lecture Notes in Networks and Systems, vol 1736. Springer, Singapore. https://doi.org/10.1007/978-981-95-5079-1_13 - **Springer - Conference**
34. Amudala, A., Moni, **M.K., Akuthota**, K., Malchi, S.K., Davanam, G., Neelima, P. (2026). Journey Craft: A Next-Gen Travel and Tourism Management System. In: Nagini, S., Govardhan, A., Baby, V., Kountcheva, R., Raju, K.S. (eds) Proceedings of Fifth International Conference on Advances in Computer Engineering and Communication Systems. ICACECS 2024. Smart Innovation, Systems and Technologies, vol 117. Springer, Singapore ,2026 . https://doi.org/10.1007/978-981-96-4410-0_14 – **Conference Paper.**

35. **Geetha Vadnala,** Udayasree Varadaraju, Thanmayee Papakannu & Vamsi Krishna Reddy Nagired – Intelligent Prediction of Heart Disease and Microvascular Complications: A Machine Learning Approach with Real-Time Patient Data, 16th International Conference on Advances in Computing Control and Telecommunication Technologies Act 2025, Grenze International Journal of Engineering and Technology 2026 – Conference Paper – students

36. **Mrs. Geetha Vadnala,** Mr. Boya Raghuveera, Ms. Nakkinti Ramya Sree, Ms. Mude Revathi , Mr. Chinnuru Saiprakash, High-Precision CNN-Based Model for Early Stage Identification of Rice Leaf Disorders, 16th International Conference on Advances in Computing Control and Telecommunication Technologies Act 2025, Grenze International Journal of Engineering and Technology 2026 – Conference Paper – students

37. **Mrs. Geetha Vadnala,** Mr. Kavali Yashwanth, Mr. Y Tharun Kumar Reddy, Ms. Namburi Varshitha Chowdari & Mr. Kondey Santhosh Reddy. Low-Cost Embedence Meter for Soil Water Content Measurement using IoT, 16th International Conference on Advances in Computing Control and Telecommunication Technologies Act 2025, Grenze International Journal of Engineering and Technology 2026 – Conference Paper – students.
38. **T. Thangarasan,** B. Jai Kumar, S. Jeelan, S. R. Reddy and B. Manohar, "AI Supported Chronic Kidney Disease Prediction Using Machine Learning Classification Techniques," *2025 2nd International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS)*, Bangalore, India, 2025, pp. 1-6, doi: 10.1109/ICCAMS65118.2025.11234089. – **Conference Paper.**
39. **T. Thangarasan;** Shankar Nayak Bhukya; T. Veena; T. Aathmanesan; M. Clement Joe Anand; Dharamvir; B. Uma Maheswari; B. Aravind Prasad. Enhancing Bayesian optimization with structural domain knowledge for efficient search, AIP Conference Proceedings. 3270, 020239 (2025) https://doi.org/10.1063/5.0262551– **International Conferences**

40. **Thangarasan T** ; Mohammad Suhail Shaik; Mahammad Ali Pathan; Moulidhar Puli; Sahitya J., Advancing clinical diagnosis through intelligent artificial intelligence: A ResNet-based approach for cardiomegaly detection., AIP Conf. Proc. 3237, 030060 (2025) https://doi.org/10.1063/5.0247056. – **International Conferences**
41. S. Elango, K. Sakthimurugan, G. Sudha, J. Kirubakaran, K. H. S. Basha and S. Selvarasu, "Base-Station Slot Antenna for Milli-Meter Wave Application Using SIW Technology," 2025 10th

1-7, doi: 10.1109/ICSSS66939.2025.11346230. – Conference Paper.

42. **Thripthi P Balakrishnan**, K. Vijaya Gowri, G. Venkata Sudheer, E. Vinitha, R. Sailaja, Anomaly Detection in High Dimensional Data using Machine Learning, GRENZE International Journal of Engineering and Technology, Volume: 11 Issue: 2,Grenze ID:01.GIJET.11.2.778_25, Pages: 10066-10074 (2026). ISSN: 2395-5295(Online); 2395-5287(Print) - **conference – Journal paper .**
43. **Thripthi.P. Balakrishnan**, G. Vamil, B. Vanitha, N. Vasantha and S. S. Sree, "Shielded Med-AI: Privacy-Centric Federated Deep Learning for Healthcare Imaging," *2026 International Conference on Smart Electronic Devices and Intelligent Systems (ICSEDIS)*, Chiramanangad, India, 2026, pp. 1752-1758, doi: 10.1109/ICSEDIS68157.2026.11518061. – **IEEE – Conferences – students.**
44. **Thripthi P. Balakrishnan**, M. Bathula, K. Addluri, L. Modem and M. Bala, "Enhancing Fetal Health Prediction Through Feature Reduction and Ensemble Learning," *2026 International Conference on Smart Electronic Devices and Intelligent Systems (ICSEDIS)*, Chiramanangad, India, 2026, pp. 433-440, doi: 10.1109/ICSEDIS68157.2026.11517972. – **IEEE – Conferences – students.**
45. **E. Gayatri**, A. A, M. M. Reddy, S. J and B. V. Lokesh, "Deep Learning for Tomato Leaf Disease Detection and Classification," 2025 3rd International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS), Erode, India, 2025, pp. 1769-1773, Doi: 10.1109/ICSSAS66150.2025.11080747. – **Conferences Paper**
46. Nidhya Rangarajan; Reddem Yaswanthreddy; Ajaypradeep Natarajsivam; ThamaraiSelvi K; Kaliyamoorthi P, "CodeLedger: a Blockchain-Based Framework for Secure Software Version Control," 2025 11th International Conference on Communication and Signal Processing (ICCSP), Melmaruvathur, India, 2025, pp. 1674-1678, doi: 10.1109/ICCSP64183.2025.11089234. – **Conferences Paper**

47. **Ajay. Natarajsivam**, N. Praneetha, Rani.V, M. PraveenKumar and B. R. Naik, "Pap Smear Image Segmentation and Classification Methods For Cervical Cancer Detection Using Machine Learning," 2025 Fourth International Conference on Smart Technologies, Communication and Robotics (STCR), Sathyamangalam, India, 2025, pp. 1-6, doi: 10.1109/STCR62650.2025.11020573. . – **Conferences Paper**

R & D Coordinator

Head of Department

Head of the Department
Computer Science & Engineering
Madanapalle Institute of Technology & Science
MADANAPALLE-517 325.

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Department of Computer Science & Engineering

Ay 2025 – 2026 – R & D Details –Patent and Copyrights

1. Patent : **Dr. Gunji Sreenivasulu** : A Novel Adversarial Robustness in Deep Learning Models for Autonomous Vehicle Perception. Publication No: 202641074355 A, Publication Date: 26/06/2026
2. PATENT : **Mrs.Nirmal K** - Oppertinity to protect the Intellectual propoert in india through PCT system Application Number : 202641005817 , Publication Date : 5.
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R & D Coordinator

Head of Department

Head of the Departmen.
Computer Science & Engineering
Madanapalle Institute of Technology & Science