Faculty Profile



Dr. Rakesh Kumar .M, M.E., Ph.D
Associate Professor–CSE

HIGHLIGHTS:

- Number of Journal Publications: **60**
- H-Index: **20**
- Project Funding Received: --
- Patents Published:**3**
- Patents Granted: --

PROFESSIONAL LINKS:

- Scopus ID: 0000-0002-5059-7269
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=58151259500
- Google Scholar ID: https://scholar.google.com/citations?hl=en&user=otMltEQAAAAJ&view_op=list_works&sortby=pubdate
- Anna University Faculty ID: 2621001989
- AICTE Faculty ID: 1-24154445958
- Anna University Supervisor ID: **NA**
- LinkedIn: https://www.linkedin.com/in/rakeshkumarmahendran/

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: **11 years**
- Industrial Experience: **2 years**

INTERNATIONAL EXPOSURE:

- Associate Editor -Software Impacts (https://www.sciencedirect.com/journal/software-impacts/about/editorial-board)
- Associate Editor - Frontiers in Signal Processing (https://www.frontiersin.org/journals/signal-processing/editors)

AREA OF SPECIALIZATION:

- **Large Language Models**
- **Multi-modal Medical Image Analysis**
- **Machine Learning/Deep Learning**
- **Health Informatics**

Ph.Ds AWARDED WITH DETAILS: Not Applicable

Ph.Ds GUIDING:

- **Full Time Scholars: Not Applicable**
- **Part Time Scholars:**

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

PATENTS PUBLISHED/GRANTED:

∗ Emergency Medicine Delivery Transportation using Unmanned Aerial Vehicle, Australian Grant Innovation Patent, Patent No: 2021103791, Till 2029.
∗ Semantics based Intelligent Search Method for Cloud E-healthcare Records, Australian Grant Innovation Patent, Patent Filled
∗ Automated Physical Evaluation and Sports Injury Assessment Using Artificial Intelligence, Indian Patent,202141042394.

COURSES CERTIFIED:NA

ACHIEVEMENTS AND AWARDS:

∗ **Best Faculty Award** in Department of Computer Science and Engineering, Rajalakshmi Engineering College in 2023.

∗ Google Developers Solution Challenge-TOP 100' Mentor-2024 -Recognized World's Top 100 Teams in GDSC 2024 organized by Google

∗ **Winner Mentor** -Winner-Smart India Hackathon-2023 held at IES college of Technology - Bhopal organized by AICTE -Awarded Cash Prize 1,00,000 INR

∗ **Winner Mentor** -Winner-Smart India Hackathon-2024 held at Indian Institute of Technology - Bhubaneswar organized by AICTE - Awarded Cash Prize 1,00,000 INR

∗ **Mentor** -Runner Up Winner-PEC Hackathon (Panimalar Engineering College Hackathon) - 2024 held at Panimalar Engineering College - Awarded Cash Prize 50,000 INR

∗ **Mentor** -Winner-PEC Hackathon (Panimalar Engineering College Hackathon) -2025 held at Panimalar Engineering College - Awarded Cash Prize 75,000 INR

∗ **Mentor** -Second Runner Up- SAP PSG-ITech 2024 Hackfest Hackathon held at PSG Institute of Technology and Applied Research - Awarded Cash Prize 1,50,000 INR

SPECIAL SESSIONS DELIVERED:

∗ Invited Speaker & Session Chair in the 2nd International Conference on Emerging Research In Computational Science - 2025 (ICERCS -24) on 10th-15th December 2025 organized by the Department of Computer Science & Engineering, Karpagam Academy of Higher Education, Coimbatore, India.

∗Session Chair in the 2nd International Conference on Emerging Research in Computational Science - 2024 (ICERCS -24) on 12th-14th December 2024 organized by the Department of Computer Science & Engineering, Karpagam Academy of Higher Education, Coimbatore, India.

∗ Session Chair in the International Conference on Emerging Research in Computational Science - 2023 (ICERCS -23) on 7th-9th December 2023 organized by the Department of Computer Science & Engineering, Karpagam Academy of Higher Education, Coimbatore, India.

∗ AICTE Sponsored International Conference on Internet of Things and Its Challenges ICITC-2017, Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College 2017

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

∗ **[ICVADV'25]** Rakesh Kumar Mahendran, Kumar Perumal, and V. Rajendran. "Continuous Sign Language Recognition and Translation Using Deep Learning Approach." 2025 International Conference on Visual Analytics and Data Visualization(ICVADV), Tirunelveli, India, pp. 875–880. //https://doi.org/10.1109/ICVADV63329.2025.10960956, 2025.

∗ **[ESCI'25]** Rakesh Kumar Mahendran, S. Anisha, S. Varshini, and P. Kumar. "COP-Detect: An End-to-End Transformer based Enhanced Colon Polyp Detection and Segmentation Framework Using Colonoscopy Images." 2025 International Conference on Emerging Smart Computing and Informatics (ESCI), Pune, India, pp. 1–7. //https://doi.org/10.1109/ESCI63694.2025.10988044, 2025.

∗ **[ESCI'25]** Rakesh Kumar Mahendran, R. C, S. S. G, and P. Kumar. "DST-M2D: A Dualistic-Series Transformer Framework for Major Depressive Disorder Analysis Using Multimodal MRI Data." 2025 International Conference on EmergingSmart Computing and Informatics (ESCI), Pune, India, pp. 1–10. //https://doi.org/10.1109/ESCI63694.2025.10988263,2025.

∗ **[WiSPNET'25]** Rakesh Kumar Mahendran, A. P, and K. P. "PancreasNet: A Transformer-Based Progressive Residual Network for Comprehensive Pancreatic Cancer Detection using CT Images." 2025 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET), Chennai, India, pp. 1–12. //https://doi.org/10.1109/WiSPNET64060.2025.11004859, 2025.

∗ **[ICETET-SIP'25]** Rakesh Kumar Mahendran, S. S. Pojakshya C, T. R, and P. Kumar. "STIL-Net: A Hybrid Spatio Textural Integrated Network for Classifying Lumbar Disc Diseases Using the Lumbar Spine MR Images." 2025 12th International Conference on Emerging Trends in Engineering & Technology – Signal and Information Processing (ICETET-SIP),Nagpur, India, pp. 1–6. //https://doi.org/10.1109/ICETETSIP64213.2025.11156750, 2025.

∗ **[ESCI'24]** Rakesh Kumar Mahendran, Abirami Thiyagarajan, Angelin Gracia A and Kumar P. "Multi-Modal Visual Features Perception Technology for Internet of Vehicles (IoV)." 2024 International Conference on Emerging Smart Computing and Informatics (ESCI) (2024): 1-5. https://doi.org/10.1109/ESCI59607.2024.10497246, 2024.