Faculty Profile

Dr. RAMYADEVI R, M.E., Ph.D

Associate Professor, CSE

Date of Joining: 09.08.2021

HIGHLIGHTS:

- Number of Journal Publications : 28
- H-Index : 3
- Project Funding Received : Nil
- Patents Published : 5
- Patents Granted : Nil

PROFESSIONAL LINKS:

- Scopus ID: 57933563600
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=57933563600
- Google Scholar ID: https://scholar.google.com/citations?user=UHPix9oAAAAJ&hl=en
- Anna University Faculty ID: 1132146
- AICTE Faculty ID: 1476007611
- Anna University Supervisor ID: NA
- LinkedIn: https://www.linkedin.com/in/dr-ramya-devi-r-28162465/

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 23 years
- Industrial Experience: Nil

INTERNATIONAL EXPOSURE:

- Collaboration with International Eperts through publications, **Smart Watch with Machine Learning Based Fall Detection System**, Nandini, B.P., Reddy, P.S., Mary, Gerardine Immaculate, Anitha Julian, Ramyadevi, R., Rele, M. 2024 IEEE Region 10 Symposium, TENSYMP 2024, 2024.
- Thomas, N., Kumar, A., Mary, G.I., Julian, A., Ramyadevi, R. (2024). **Comparative Analysis of**

Neural Networks with Traditional ML Algorithms for Crime Prediction. Ragavendiran,

S.D.P., Pavaloaia, V.D., Mekala, M.S., Cabezuelo, A.S. (eds) Innovations and Advances in Cognitive Systems. ICIACS 2024. Information Systems Engineering and Management, 2024.

AREA OF SPECIALIZATION:

- Artificial Intelligence
- Machine Learning
- Data Analytics
- Knowledge Engineering and Web Minig

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

- Nominee of Intramural Research titled on Analyzing Environments Using AWS DeepLens contributed by Dr. Anitha Julian and Dr. R.Ramyadevi, CSE

PATENTS PUBLISHED/GRANTED:

- Smart Mesh Network for Energy-Efficient IoT Device Communication with Predictive Maintenance Capabilities, 202441090732 A, 29/11/2024
- Dynamic Context-Aware AI System for Real-Time Adaptive Decision- Making Using Multimodal Data Streams, 202441090731 A, 29/11/2024
- ANN based device for reading mood and mind, 20234100412 A, 17/02/2023
- A Machine Learning Model for predicting Air Quality and control the same, 202341001671 A, 20/01/2023
- A compatible platform for Healthcare applications based on Internet of Medical Things, 202241071726 A, 30/12/2022
- A System with Machine Learning to Diagnose Autism at an Earlier Stage, 202241042291, 29/07/2022
- A Blockchain-Based Artificial Iot Data Acquisition Edge Computing Environment, 202241042049, 29/07/2022

COURSES CERTIFIED:

- Machine Learning, Stanford University, Courser
- Deep Learning, PadhAI
- Basics R - R programming Language Introduction, UDEMY
- Learn R for Business Analytics, UDEMY
- Research collaborations, Researcher Academy

ACHIEVEMENTS AND AWARDS:

- Google Club Mentor for Saveetha Engineering College from 2022 onwards with an achievement of Tier 1 status in 2023-24
  https://www.instagram.com/gdsc_sec/
- Coordinated Coder's Club with 700+ members conducting 16 Events for Developer including with a Hackathon

- Wipro Mission 10x awarded Dale Carnegie Training Certified on High Impact Teaching Skills

SPECIAL SESSIONS DELIVERED:

- Acted as Special Session Chair at the 5th International Conference on Computing, Power, and Communication Technologies (IC2PCT) successfully held on February 9th & 10th, 2024 at Galgotias University, Greater Noida, India. This prestigious conference was organized with the financial and technical sponsorship of the IEEE Uttar Pradesh Section.
- Acted as Special Session Chair at the International Conference on Artificial Intelligence, Blockchain, Computing And Security (ICABCS 2023), held at Galgotias University, Greater Noida, Delhi NCR in Association with Taylor & Francis on 24th & 25th Feb 2023.
- Presented a comprehensive Guest Lecture on Analyzing on Decision Tree Algorithms at RAZZ Engineering College, emphasizing theoretical principles, real-world applications, and advanced implementation strategies.
- Delivered an expert guest lecture on Wearable Device at SRM, focusing on cutting-edge technologies, practical applications, and future trends.
- Guest Lecture on Decision Tree Algorithm in Artificial Intelligence, 14 Mar 2019 at AMS College of Engineering, Avadi, Chennai.
- Guest Lecture on Artificial Intelligence & Expert Systems, 2019 at Velammal Institute of Technology, Panchetti, Chennai.
- Guest Lecture on Recent Trends in AI - Advanced Expert Systems, 13 th March, 2018 at Loyola-ICAM College of Engineering and Technology, Nungambakam, Chennai.
- Speaker in a Faculty Development Programme on DAA at Velammal Engineering College

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

CONFERENCE:

- **Smart Watch with Machine Learning Based Fall Detection System**, Nandini, B.P., Reddy, P.S., Mary, G.I., ... Ramyadevi, R., Rele, M. 2024 IEEE Region 10 Symposium, TENSYMP 2024, 2024
- **AI-Infused Sales Prediction for Smart Stock Maintenance**, Mervin, R., Ramyadevi, R. Lecture Notes in Networks and Systems, 2024, 1030 LNNS, pp. 175–184
- **Journey into the Digital Frontier: Demystifying Neural Networks and Deep Learning**, Julian, A., Ramyadevi, R., Deep Learning in Medical Image Analysis: Recent Advances and Future Trends, 2024, pp. 1–15

- **Multiple Cancer Prediction with Image Analysis and Machine Learning**, Nithya Sree, N., Ramyadevi, R., Proceedings - International Conference on Computing, Power, and Communication Technologies, IC2PCT 2024, 2024, pp. 481–485

- **Gesture-Driven Virtual Mouse: Empowering Accessibility through Hand Movements**, Julian, A., Suresh, D., Ramyadevi, R. Proceedings - International Conference on Computing, Power, and Communication Technologies, IC2PCT 2024, 2024, pp. 755–758

- **Invoice Processing Automation Using UI Path Studio**, Ramyadevi, R., Anbuselvan, A., Julian, A., Selvi, S., Murali Dhar, M.S. Proceedings - International Conference on Computing, Power, and Communication Technologies, IC2PCT 2024, 2024, pp. 486–489

- **Time Series Forecasting of Sales Data using Hybrid Analysis**, Rajasree, T., Ramyadevi, R. Proceedings - International Conference on Computing, Power, and Communication Technologies, IC2PCT 2024, 2024, pp. 732–735

- **Cogniwealth: Revolutionizing Finance, Empowering Investors, and Shaping the Future of Wealth Management**, Ramyadevi, R., Sasidharan, G., Proceedings - International Conference on Computing, Power, and Communication Technologies, IC2PCT 2024, 2024, pp. 378–381

- **Block Chain-Powered E-Voting System: A Secure and Transparent Solution with Three-Tiered OTP Security Mechanism**, Ramyadevi, R., Priya, V., Proceedings - International Conference on Computing, Power, and Communication Technologies, IC2PCT 2024, 2024, pp. 728–731

- **Analysis and Estimation of Discounts on Product Prices in E-Commerce Sites**, Julian, A., Maheswar, C., Ramyadevi, R., Murali Dhar, M.S., Selvi, S., Proceedings - International Conference on Computing, Power, and Communication Technologies, IC2PCT 2024, 2024, pp. 759–762

- **Node to node communication security In IoT networks with hybrid cryptography and steganography system**, Sreevidya, M.V., Ramyadevi, R., Chamundeeswari, V.V., Artificial Intelligence, Blockchain, Computing and Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023, 2024, 2, pp. 534–537

- **Predicting career opportunities online learning platform**, Ramyadevi, R., Hemnath, B., Guruprakash, S., Gokulakannan, D., Vikram, M., Artificial Intelligence, Blockchain, Computing and Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023, 2024, 2, pp. 514–518

- **Real time object detection and object size measurement**, Julian, A., Ramyadevi, R., Subiksha, V., Breetha, S.D., Artificial Intelligence, Blockchain, Computing and Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023, 2024, 2, pp. 208–212

- **A system for crop recommendation to improve the production management**, Ramyadevi, R., Sandeep, K., Girish Sairam, V., Vaisak, P., Artificial Intelligence, Blockchain, Computing and

Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023, 2024, 2, pp. 213–217

- **Smart fish monitoring system using IoT**, Divya, T., Ramyadevi, R., Vijaya Chamundeeswari, V., Artificial Intelligence, Blockchain, Computing and Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023, 2024, 2, pp. 270–273

- **Detecting the violence from video using computer vision under 2dspatio temporal representations**, Srividhya, M., Ramyadevi, R., Vijaya Chamundeeswari, V. Artificial Intelligence, Blockchain, Computing and Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023, 2024, 2, pp. 530–533

- **Segmentation and Classification of Gastric Cancer from Endoscopic Image Dataset with the Aid of Artificial Intelligence**, Anitha, C., Srinivas Rao, V., Ramyadevi, R., ... Debroy, S., Mahaveerakannan, R., 7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings, 2023, pp. 212–218

- **A system for crop recommendation to improve the production management**, Ramyadevi, R., Sandeep, K., Sairam, V.G., Vaisak, P., Artificial Intelligence, Blockchain, Computing and Security: Volume 2, 2023, 2, pp. 213–217

- **Predicting career opportunities online learning platform**, Ramyadevi, R., Hemnath, B., Guruprakash, S., Gokulakannan, D., Vikram, M., Artificial Intelligence, Blockchain, Computing and Security: Volume 2, 2023, 2, pp. 514–518

- **Node to node communication security In IoT networks with hybrid cryptography and steganography system**, Sreevidya, M.V., Ramyadevi, R., Chamundeeswari, V.V., Artificial Intelligence, Blockchain, Computing and Security: Volume 2, 2023, 2, pp. 534–537

- **Real time object detection and object size measurement**, Julian, A., Ramyadevi, R., Subiksha, V., Breetha, S.D., Artificial Intelligence, Blockchain, Computing and Security: Volume 2, 2023, 2, pp. 208–212

- **Detecting the violence from video using computer vision under 2dspatio temporal representations**, Srividhya, M., Ramyadevi, R., Chamundeeswari, V.V., Artificial Intelligence, Blockchain, Computing and Security: Volume 2, 2023, 2, pp. 530–533

- **Code together-a code sharing platform**, Devi, R., Reddy, E.G., Reddy, V.R.D., Ganesh, R., Artificial Intelligence, Blockchain, Computing and Security: Volume 2, 2023, 2, pp. 525–529

- **Maximize the Security for Image Processing Using an Improved Watermarking Approach**,Tyagi, M.K., Anitha, C., Ramyadevi, R., Suman, P., Ahmadi, F., Mathematical Problems in Engineering, 2023, 2023, 560-564

- **Development of High-Quality Crops using Optimized Machine Learning in Smart Agriculture Environment**, Venkatakotireddy, G., Lakshminatha Reddy, C., Ramyadevi, R., ... Nivethitha, T., Mahaveerakannan, R., Proceedings of the 3rd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2023, 2023, pp. 532–536

- **Construction of Deep Representations**, Julian, A., Ramyadevi, R., Prediction and Analysis for Knowledge Representation and Machine Learning, 2022, pp. 81–109
- **Triple DES: Privacy Preserving in Big Data Healthcare**, Ramya Devi, R., Vijaya Chamundeeswari, V., International Journal of Parallel Programming, 2020, 48(3), pp. 515–533
- **Location based query system by securing private information**, Farzana, S., Ramyadevi, ARPN Journal of Engineering and Applied Sciences, 2015, 10(7), pp. 3228–3231

Workshop/Seminar/FDP:

- Participated in the Capacity Building Programme on Cybersecurity, organized under the Malaviya National Mission on Teachers supported by the Ministry of Education, Government of India, through the Malaviya Mission Teacher Training Programme by IIT Madras Pravartak
    - Basic Level during 23 Dec 2024 to 27 Dec 2024 (5 days)
    - Intermediate Level during 30 Dec 2024 to 04 Jan 2025 (5 days)
- FDP on Advanced AI: Tools and Algorithms (AATA-2024) at Sri Sivasubramaniya Nadar College of Engineering from 16th to 21 December 2024.
- One Week Faculty Industry Training Programme (FITP) on Explainable Artificial Intelligence (XAI Technology) in Association with MIT Square, London organized by Department of Computer Science and Engineering, SRM Institute of Science and Technology, Ramapuram, Chennai from 8th to 12th July, 2024 and secured Assessment grade A.
- Faculty Development Program on Machine Learning at St. Joseph's College of Engineering from 24th to 28th June 2024.
- Five Days Faculty Development Program on Building Advanced Data Analytics Applications with Cloud under Next Gen Employability Program from 8th Jan to 12th 2024.
- Faculty Development Program on Transformation in Healthcare - Smart Cities at K.S. Rangasamy College of Technology organized by IEEE-EMBS Madras Section from 12th to 30th August 2023.
- Two weeks International Faculty Development Program on Research Tools at Easwari Engineering College from 3rd to 14th June 2023.
- One week Virtual Faculty Development Program on Emerging Research Trends in Blockchain and Data Science at Dr. M.G.R Educational and Research Institute from 8th to 12th May 2023.
- Six Days Faculty Development Program on Data Analytics at Panimalar Engineering College from 26th to 31st December 2022.

- Two weeks International Faculty Development Program on Data Science Tools at Easwari Engineering College from 7th to 20th Oct 2022.
- Two Days Online National workshop on Edge computing and its applications, organized by the Department of Computer Science and Engineering, SSN College of Engineering during 26 & 27 August 2022

PROFESSIONAL MEMBERSHIPS:

- International Association for the Engineers (IAENG)
- Computer Science and Teacher's Association Public Community
- Institute of Research Engineers and Doctors (iRED)

OTHER DETAILS (If any):

Book Reviewer:

- Reviewed the Chapter 4 Basics of Learning Theory in the book titled by " Introduction to Machine Learning " written by the Authors Dr Sridhar and Dr Vijayalakshmi, published by Oxford University Press, India, reviewed in June 2020.
- Reviewed the book entitled Emerging Trends in Computation Intelligence and Disruptive Technologies (Volume2)

Journal Reviewer:

- Acted as reviewer for 3rd International Conference on Communication, Security, and Artificial Intelligence, 2025
- Technical Reviewer for the International Conference on Informatics and Smart Engineering Systems (INSES - 2024) held at Loyola-ICAM College of Engineering and Technology on 21st and 22nd March, 2024.
- Technical Reviewer for the International Conference on Educating Post Millennials 2024 (ICEM'24)
- Reviewer of the proposal titled on Sentiment Analysis Using machines Learning Approaches which has been submitted to 2nd International Conference On Smart Technologies For Smart Nation (SmartTechCon 2023).