

# Resume of Dr. PREMA AROKIA MARY G

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## Dr. Prema Arokia Mary G

Associate Professor,  
Department of CSE,  
RV Institute of Technology and Management (RVITM),  
Bengaluru – 560076.  
E-Mail: premaamg.rvitm@rvei.edu.in  
Mob: +91-9655523276



## EDUCATION

- **Ph.D.**, Department of Information and Communication Engineering, Anna University, May 2023
- Master of Engineering (CSE), Kumaraguru College of Technology, Anna University, 2008: 75 % - ID
- Bachelor of Engineering (CSE), Tamil Nadu College of Engineering, Anna University, 2006: 68 % - I
- H.S.C, G.K.D.H.S.S, Coimbatore, 2002: 83 %
- S.S.L.C, T.H.S.S, Coimbatore, 2000: 84 %

## EXPERIENCE DETAILS

- RV Institute of Management and Technology as an Associate Professor, Bangalore – India (Jan 2026 – till date)
- Presidency University as an Associate Professor, Bangalore – India (June 2025 – Dec 2025)
- Sri Venkateshwara College of Engineering as an Associate Professor & IQAC Head, Bangalore – India (June 2024 – May 2025)
- Kumaraguru College of Technology as an Assistant Professor, Coimbatore - India (June 2008 – May 2024)

## AREA OF SPECIALIZATION

- Machine Learning, Data Analytics, Blockchain Technology

## LIST OF JOURNAL PUBLICATIONS:

- Prema Arokia Mary G, Gowthami K, Aishwarya S and Anusha CN, 2025, 'Intelligent Online Chatbot System for Railway Ticketing: Enhancing Efficiency and User Experience', IJCRT, Volume 13, Issue 1 January 2025, ISSN: 2320-2882.
- Bhavana DK, Chaitra TR, Dinakar S and Prema Arokia Mary G, 2025, 'SAR Image Colorization Compressive Insight Using Deep Learning', IJRAR January 2025, Volume 12, Issue 1, E-ISSN 2348-1269.
- Prema Arokia Mary G, Abhishek Y S, Dharshan R and Hariharan J 2025, 'Intelligent Traffic Systems: Enhancing Emergency Vehicle Mobility with Real-Time Data', IJNTI, Volume 3, Issue 1 January 2025 | ISSN: 2984-908X.
- Abhishek Shetty B, Gagan Nayaka K.M, Dhanush B M and Prema Arokia Mary G, 2025, 'Effective Career Building Using Machine Learning Algorithm', IJCRT, Volume 13, Issue 1 January 2025, ISSN: 2320-2882.
- Prema Arokia Mary G , Sathyavathi S , Dheesiga A , Kritiyaa S , Prithiv V, 2023, 'Cryptocurrency price prediction', JETNR, Volume 1, Issue 12, pp. 204-211.
- Shakthi Sabarinath S.V and Prema Arokia Mary, G, 2023, 'A Review on Virtual Testbed Frameworks for Implementation of Various HVAC Control Strategies', IJARST, Volume 3, Issue 1, ISSN online 2581-9429.

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- Prema Arokia Mary G, Hariharan D, Saisaran K & HaniRahim 2022, 'A Review on Machine and Deep Learning Classification Techniques for Monkeypox Detection', IJRAR, Volume 9, Issue 4, e-ISSN:2348-1269.
- Prema Arokia Mary, G & Suganthi, N 2022, 'Detection of Parkinson's Disease with Multiple Feature Extraction Models and Darknet CNN Classification', Computer Systems Science and Engineering, vol.43, no.1, pp.333-345, (print ISSN: 0267-6192), doi:10.32604/csse.2022.021164
- Prema Arokia Mary, G, Naveen Vignesh, G & Suganthi, N 2021, 'Various Approaches of Detecting Parkinson Disease Using Speech Signals and Drawing Pattern', ICTACT Journal on Data Science and Machine Learning, vol.3, no.1, pp.267-271.
- G. Prema Arokia Mary, N. Suganthi, and M. S. Hema, 'Early Prediction of Parkinson's Disease from Brain MRI Images Using Convolutional Neural Network', J. Med. Imaging Health Inf. 11, 3103–3109 (2021)
- Prema Arokia Mary, G, Suganthi, N, Monisha M, Ragapriyaa C & Vignesh N 2021, 'Wrist Sensor Based Tremor Diagnosis in Parkinson's Disease Using Machine Learning Algorithm', Strad Research, vol.8, no.5, pp. 145-151, <https://doi.org/10.37896/sr8.5/014>, ISSN: 0039-2049
- Prema Arokia Mary, G, Amrithaa D, Santhosh MG and Sowndarya K 2021, 'Weapon Detection in Video Surveillance Using Convolutional Neural Network', International Research Journal of Engineering and Technology, Volume-8, No. 4, e-ISSN: 2395-0056.
- Prema Arokia Mary, G, Suganthi, N & Hema MS 2021, 'A Critical Review on Parkinson's Disease Due to Pesticide Exposure', Strad Research, vol.8, no.5, <https://doi.org/10.37896/sr8.5/060>, ISSN: 0039-2049
- Prema Arokia Mary, G, Suganthi, N, Hema MS, Hari Dharshini M, Vaishaali K and Monika Sri M, 2020, 'Predicting Metamorphic Changes in Parkinson's Disease Patients Using Machine Learning Algorithms', BBRC, vol.13, no.11, pp. 147-152.
- G.Prema Arokia Mary, Saru Priya, N.Suganthi & S.Sathyavathi, 2020, 'Dopamine Analysis Using Multiple Machine Learning Techniques', International Journal of Advanced Science and Technology, Vol.29, No. 5.
- S. Sathyavathi, R. Dhaaraani, S. Kavitha, G. Prema Arokia Mary, 2020, 'Detection of Fraudulence Activity Using Smart Cards', International Journal of Advanced Science and Technology, 29(06), 4344 - 4352.
- G.Prema Arokia Mary, N.Suganthi and M.S.Hema, 'A Recapitalization on Crypto jacking and end to end Analysis of Ransomware Attacks', IJEAT, ISSN:2249-8958, Volume-8, Issue-6S3, September 2019
- R.Maheshprabhu, M.S.Hema and G.Prema Arokia Mary, 'Information System for Performance Improvement of small and Medium Scale Enterprises', IJRTE, ISSN:2277-3878, Volume-7 Issue-4S2, December 2018
- G.Prema Arokia Mary, C.Sruthi, T.Abirami, S.Kanagaraj, 'A Comparative Study on Performance Analysis of Cryptographic algorithms in online Banking Transactions', IJSR,17(2):2018, e-ISSN: 2250-0138
- S.Kanagaraj, G.Prema Arokia Mary and M.S.Hema, 'Helping Hands – Anthropomorphic Robot Hand', IJSR,17(2):2018, p- ISSN: 0976-2876, e-ISSN: 2250-0138
- Prema Arokia Mary G, Hema M S, and Nageswara Guptha, 'An efficient approach for analyzing and improving data quality in data integration', IJPAM, Vol 116, Issue 12, 2017
- Aarthy R, Susmitha, Kannathal, Cynthia J and Prema Arokia Mary G, 'Overview of Software Defined Networks and Mesh Tree Protocol', IRJET, Volume 4, Issue 4, April 2017 e-ISSN: 2395 -0056.
- Sumathi V.P and Prema Arokia Mary G, 'Various Techniques for Predicting Cervical Cancer', IJIRCCCE, Volume 5, Issue 3, March 2017

### LIST OF NATIONAL / INTERNATIONAL CONFERENCE PUBLICATIONS:

- Prema Arokia Mary, G, Hema, M. S, Bama S and Nageswara Guptha M, 2025, 'Comparison of Deep Reinforcement Learning Methods for HVAC System Optimization with forecast Parameters Over Various Time Periods', IEEE-International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IEEE IATMSI-2025), IITM, Gwalior.

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- Prema Arokia Mary, G, N. P S, N. V and T. G V, 2023, 'Wild Animal Detection System', 2nd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA), Coimbatore, India, 2023, pp. 1-6, doi: 10.1109/ICAECA56562.2023.10199701.
- Prema Arokia Mary, G, Hema, M. S., Guptha, M. N, Maheshprabhu, R, Bama, & Sathyavathi S, 2023, Diagnosing Monkeypox using Deep Learning Models by applying Different Optimizers', International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), SVCE, Bangalore.
- Sathyavathi S, Prema Arokia Mary G, Kumaran R, Kaliraj R and Nithya Vishal, 2023, Web Application for Crop Yield Prediction', First International Conference on Contemporary Progress in Engineering & Technology, KGISL Institute of Technology, Coimbatore.
- Prema Arokia Mary, G, Naveen Vignesh, G, Hema, M. S., Guptha, M. N, Maheshprabhu, R & Sharma A 2022, A Machine Learning Approach to Detect Parkinson Disease Using Speech Signals', International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), pp. 240-244, doi: 10.1109/IIHC55949.2022.10060407
- Hema, M.S., Maheshprabhu, R., Guptha, M.N., Prema Arokia Mary, G, & Sharma, A., 2022, November. Prediction of Parkinson Disease using Autoencoder Convolutional Neural Networks. In 2022 International Interdisciplinary Humanitarian Conference for Sustainability (IIHC) (pp. 236-239).
- Prema Arokia Mary, G, Hema, M.S., Maheshprabhu, R. & Guptha, M.N., 2021, December. Sentimental Analysis of Twitter Data using Machine Learning Algorithms. In 2021 International Conference on Forensics, Analytics, Big Data, Security (FABS) (Vol. 1, pp. 1-5).
- M.Alamelu, D.V.Sujith Kumar, Rajkishore, Karthick and G.Prema Arokia Mary, 2019, Voice Normalization and Audio Quality Analysis in Cellur Conference Call Maintenance', I-STEM, KCT, Coimbatore.
- Nalini Nagendran, Prema Arokia Mary, Madhur Bhatnagar, Naveen Kumar and H. Parveen Sultana, 2019 'ALZHELP: System to verify the Well-Being of Alzheimer Pateint', I-STEM, KCT, Coimbatore.
- Prema Arokia Mary G, Priyadarshini S, Ramya S and Vaina D, 2017, 'Review About Security Through Secured Socket Layer', NCETCS'17, SNS college of Engineering, Coimbatore.
- Shenbagam P, Prema Arokia Mary G and Cynthia J, 2017, Quality Classification in Nilgiri Tea Leaves Using Fuzzy Inference', Global Conference on Advances in Science, Technology and Management, Vellore Institute of Technology, January 8-11.
- Prema Arokia Mary G, Revathi K, Revathi B and Sandhiya R, 2016, 'Dual ARTI-Q System in Vehicular Ad hoc Networks', International Conference on "Current Trends in Engineering and Technology (ICCTET 16)", Akshaya College of Engineering and Technology, 6th April.
- Prema Arokia Mary G, Abinaya K, Krishni E, Kumaravel S and Cynthia J, 2016, 'Fuzzy Inference System for Tea Leaf Classification', International Conference on "Current Trends in Engineering and Technology (ICCTET 16)", Akshaya College of Engineering and Technology, 6th April.
- Prema Arokia Mary G, Harshini V.P, and Jeevarathinam, 2015, 'Secured and energy efficient cluster deployment and relocation for vehicular access with increased QoS parameters', National Conference on "Recent Trends in Computing", SREC, 25<sup>th</sup> April.
- Prema Arokia Mary G, Satheesh Kumar D, Sridhar K and Nithyanandan S, 2013, 'Rate Adaptation Algorithm with multiple parameters in Wireless Networks', National Conference on "Recent Trends In Computer Networking and Communication Technology (RTICT 13)", Bannari Amman Institute of Technology, 12th & 13th April.
- Prema Arokia Mary G, 2008 'Wormhole Attack on Ad hoc Networks', 4th National Conference on Advances in Computer Engineering and Networking ACENET '08, PSNA College of Engineering & Technology, Dindigul, 15th March.

### BOOK PUBLICATION:

- Prema Arokia Mary G, Hema M S, Murugan S, Devika G (2026), "Operating Systems Principles and system Design", Technical Press, ISBN: 978-81-997225-2-1.

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## LIST OF BOOK CHAPTERS:

- S. Sathyavathi, R. K. Kavitha, G. Prema Arokia Mary, K. R. Baskaran (2025), Machine Learning-Based Techniques for Predictive Diagnostics in Healthcare, In Cybersecurity and Data Science Innovations for Sustainable Development of HEICC, Chapter 4, CRC Press, eBook ISBN9781032711300.
- Hema, M. S., Meena, K., Maheshprabhu, R., Guptha, M. N., & Prema Arokia Mary, G 2022. 'Parkinson Disease Prediction and Drug Personalization Using Machine Learning Techniques', In Industrial Internet of Things (pp. 57-82). CRC Press.

## LIST OF PATENTS:

- Design Patent Granted for “*AI-Enabled Device for Neurological Disorders*”, Design No. 452949-001, dated 26/03/2025
- Design Patent Granted for “*Autonomous Crop Irrigation Robot*”, Design No. 449832-001, dated 28/02/2025.

## LIST OF CONSULTANCY PROJECTS COMPLETED:

- Age Determination and Analysis using Orthopantomogram Images for Vihana Dental Care, Coimbatore, 2021 (Rs.58000)
- Invoice and Inventory Management System for Arul & Co, Coimbatore, 2017 (Rs.50,000)
- Tea Leaf Classification for Rani Traders, Coimbatore, 2016 (Rs.1,40,000)

## EVENTS ORGANIZED

- Organized a workshop on “Advanced Machine Learning and AI Applications” from 16.3.2026 to 18.3.2026 at RVITM.
- Seminar on “AI and Innovation sprits: Rapid prototyping for digital transformation”, on 19.2.2026 at RVITM, Bengaluru.
- Organized an FDP on “Transforming Education: Pedagogical Innovation for Teaching Excellence” on 20.1.2025 and 21.1.2025 at SVCE, Bengaluru
- Organized Internal SIH on 18.9.2024 to 19.9.2024 at SVCE, Bengaluru
- Organized a workshop on Python for Data Science on 5.7.2024 and 6.7.2024 at SVCE, Bengaluru
- A seminar on Quantum Minds – A futuristic approach to problem solving on 6.1.2024
- Event on “Coding Chronicles: Unveiling the Power of Programming in the age of AI” on 2.12.2023
- An engineer’s day program titled “InnoConnect” on 27.9.2023
- A hands-on workshop titled “Future Explorers” to government school children on 25.08.2023
- Coding event on “Hacker Cup”, from 9.12.2022 to 11.12.2022
- Value Added Program on “Cloud Infrastructure” from 14.11.2022 to 26.11.2022
- Placement training “Excalibur Proact”, from 21.4.2022 to 30.4.2022
- Seminar on “Intellectual Property Rights”, 13.5.2022
- Value Added Program on “App Development Using Flutter and Firebase” from 12.8.2021 to 28.8.2021
- Value Added Program on “Application Development Using Full Stack” from 23.8.2020 to 31.8.2020
- Seminar on “Research Challenges in Cyber Security”, 21.09.2019
- Seminar on “Empower yourself on Data Analytics”, 06.09.2019
- Workshop on “Techniques to Crack Competitive Exams”, 04.09.2019
- Workshop on “Red Hat Linux” ,13.08.2019 to 14.08.2019
- FDP on “Block Chain Technology and its Applications”, 02.07.2019 to 04.07.2019
- One Credit Course on “Mobile App Development”, 26.04.2019 and 27.04.2019
- Guest Lecture on “Web App Development”, 25.02.2019

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- FDP on “Research Problems & Applications in ML Algorithms”, 23.10.2018 to 27.10.2018 at KCT
- Seminar on “Digital Transformation” by Zoho during July 2018
- FDP on “Python Programming” from 26.6.17 to 2.7.17
- ZCCA one credit course by Zoho during August 2017
- Workshop on “Artificial Intelligence” by Intel AI Academy
- Seminar on “Software Development – The Manager’s Perspective” by Prof.Stephen Gill, HW Dubai Campus
- Hands-on International workshop on “ERDplus- Data modeling” by Prof.Amit , Ara University, New Zeland
- Two Days Program for Technical Support Staff Training and Development on “Open-Source Tools, Hardware Troubleshooting, Networking and Soft Skill Development”.
- Two Days Training Program for Non-Teaching Faculty on “Network Administration, Multimedia Tools and Web Designing”.
- Coordinator for IEEE International Conference on “Intelligent Interactive Systems and Assistive Technologies”.
- Conducted a Poster Presentation for the second-year students regarding Professional Ethics when I was handling the subject.

### QUALITY IMPROVEMENT PROGRAMS ATTENDED:

- FDP on “Quantum Computing” from 19.1.2026 to 23.1.2026 at RVITM, Bengaluru.
- IEEE FDP on “Agentic AI for Smart Healthcare and Medical Technologies” from 1.9.25 to 5.9.25 by KLE Technological University.
- FDP on “Generative AI: Hands-On Learning from Concepts to Applications” from 3.2.25 to 7.2.25 at RVITM, Bangalore.
- MTTP/FDP on “Cyber Security and Ethical Hacking” from 6.1.25 to 11.1.25 at SVCE, Bangalore.
- Workshop on “The Theme of Planning and Execution of IEEE Conferences”, on 22.6.24 at Dayananda Sagar College of Engineering, Bangalore.
- FDP on “Angular JS and Node JS” from 16.10.23 to 20.10.23 organized by SVCE, Bangalore.
- FDP on “Inculcating Universal Human Values in Technical Education” from 12.6.23 to 16.6.23 by AICTE
- FEP on “IoT Concepts and Applications” from 30.1.23 to 4.2.23 at MIT Campus, Anna University, Chennai.
- FDP on “Quantum Computing” from 31.1.22 to 6.2.22 at KCT, Coimbatore
- Training on “Artificial Intelligence” from 6.12.21 to 4.1.22 by Pantech Learning Pvt Limited
- FDP on “Big Data Analytics” from 4.10.21 to 8.10.21 at Anurag University, Hyderabad.
- Training on “Automatic Speech Recognition Technology” from 27.7.2021 to 31.7.2021 by Samsung PRISM Initiative
- FDP on “Introduction to Cyber Security & Cyber Forensics” from 6.9.21 to 10.9.21 at KCT
- FEP on “DBMS through INFYTQ Platform, Infosys Limited from 3.8.2020 to 7.8.2020
- AICTE-AQIS STTP on “Integrative Internet of Things and Deep Learning for Smart Healthcare” from 19.10.2020 to 24.10.2020 at KPR Institute of Engineering and Technology, Coimbatore
- Online one-week STTP on “Artificial Intelligence in Health Care” organized by KCT and IE(I) from 16.07.2020 to 22.07.2020
- Webinar on “Sentimental Analysis Using RNN” organized by KCT on 08.07.2020
- Webinar on “Data Science opportunities and Challenges” organized by KCT from 02.07.2020 to 05.07.2020
- FDP on “Fundamentals in AI”, ICT Academy
- Completed NPTEL online 8-week course on “Machine Learning” from Feb-Apr 2019.
- FDP on “Big Data Analytics” by Bosch, 24.11.17 to 1.12.17 at KCT
- FDP on “Cloud Infrastructure and Services” by ICTACT – EMC2, 7.8.17 to 11.8.17 at SRCW
- FDP on “Python Programming”, 26.6.17 to 2.7.17 at KCT

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- International workshop on “SMART CITIES: Sustainable Urban Development”, 6 & 7 June,2017 at Taj Vivanta
- FDP on “Data Analytics in Cloud Environment” 30.1.17 to 5.2.17, KCT
- ICTACT FDP on “Data Science and Big Data Analytics “, Karunya University from 18.7.16 to 22.7.16
- IE(I) sponsored seminar on “Data Analytics and Research” at Kumaraguru College of Technology on 29.6.2016 and 30.6.2016
- TEQIP-II sponsored FDP on “Computer Networks” at PSG college of Technology from May 23 to 28, 2016
- Workshop on “Internet of Things: A Research Perspective for a Smart Environment”, The School of Information Technology and Science, Dr.G.R.Damodaran College of Science (Autonomous) on 25th & 26th of November 2015
- Workshop on “Algorithms and Large-scale Computations in Cryptology”, at Amrita Vishwa Vidyapeetham from November 03rd to 06th, 2015
- ISTE-PTU sponsored FDP on “Apache Hadoop and Big Data Technologies” at Dr.N.G.P Institute of Technology from June 23rd to 29th, 2014
- Workshop on “Computational Intelligence for Security” at Kumaraguru College of Technology on 28.2.2014 and 1.3.2014
- FDTP on “Linux and Open-source Tools”, Dept of CSE at Kumaraguru College of Technology from January 27th to 29th, 2014
- National Conference on “Ad-Hoc Networks and Recent Communication Technologies” at Kumaraguru College of Technology on 16th & 17th of March 2012
- Workshop on “Team building and Leadership” at Kumaraguru College of Technology on 21.01.2012.
- Attended a workshop on “Emerging Technologies and Applications in Wireless Sensor Networks” at Kumaraguru College of Technology on July 1st & 2nd, 2011.
- National conference on “Service Oriented Computing “at Kumaraguru College of Technology, on 24th & 25th of March 2011
- Attended a workshop on “Free open source software” at Kumaraguru College of Technology on 9.4.10
- DRDO-CSIR sponsored National Conference on “Distributed Computing” at Kumaraguru College of Technology, on 29th & 30th of January 2010
- Attended a workshop on “Hi- tech Teaching Strategies”, NITTTR-Chennai, at Kumaraguru College of Technology from April 02nd – 04th, 2009

### ACADAMIC SERVICES:

- Institutional - IQAC Coordinator
- Placement Coordinator
- Department Association Coordinator
- Communication Coordinator
- Class Advisor/ Mentor
- Alumni Coordinator
- NIRF/AICTE/ISO/Academic Audit Coordinator
- NBA and NAAC Co-coordinator
- Industrial visit Coordinator
- Exam Coordinator
- Result analysis Ccoordinator
- Curriculum and course co-coordinator

### PERSONAL DETAILS:

## Resume of Dr. PREMA AROKIA MARY G

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Date of Birth: 01<sup>st</sup> Sep 1984  
Nationality: Indian  
Marital Status: Married  
Current location: Bangalore  
Languages known: English, Tamil