

Publications

Journals

- Dynamic Ethical Adaptation Framework, Sigma-Journal of Engineering & Natural Sciences(Q2-Accpeted)
- Harmonizing Color-Space Attention and Parameter-Level Ensembles for Robust Coffee Leaf Diagnostics, Engineering, Technology & Applied Science Research, DOI: <https://doi.org/10.48084/etasr.19557>
- A Time-Efficient Hybrid Qft-Qcnn Framework (Thqqf) For High-Accuracy Coffee Leaf Disease Detection, International Journal of Applied Mathematics, DOI: 10.12732/ijam.v38i10s.1030
- Conceptual View of a Smart Helmet for Accident Detection with GSM-based SMS Alert System, Grenze International Journal of Engineering and Technology Act 2025, Grenze ID: 01.GIJET.11.2.580_26(Scopus Index)
- The Impact of Traditional Indian Knowledge on Achieving United Nations Sustainable Development Goals: A Multidisciplinary Analysis Grenze International Journal of Engineering and Technology Act 2025, Grenze ID: 01.GIJET.11.2.567_26(Scopus Index)
- “An Efficient method for Recognition of Occluded Faces from Images”, An Interdisciplinary Journal of Neuroscience and Quantum Physics with DOI: 10.14704/nq.2022.20.13.NQ88264,Vol.No.20IssueNo.13PageNo2115-2124(Scopus Q3)
- “An Efficient Framework For Face Occlusion Recognition Using Deep Convolutional Neural Network Technique”, International Journal Of Research And Analytical Reviews, Volume 9 | Issue 3 | August 2022(Scopus Q4)
- ”An Approach for Prediction of Diseases to Suggest Doctors and Hospitals to Patient Based on Recommendation System”, Journal of Contemporary Issues in Business and Government, Vol. 27, No. 3,2021(Web of Science)

Book Chapter

- AI-Driven Alzheimer's Disease Detection and Prediction: **“Revolutionizing Alzheimer's Diagnosis: Navigating the Challenges and Embracing Opportunities in the Clinical Integration of AI-Powered Tools”**, Projected Release Date: June, 2024|Copyright: © 2024 |Pages: 350,DOI: 10.4018/9798369336052,ISBN13:9798369336052|ISBN13Softcover: 9798369366370|EISBN13:9798369336069.(**Scopus Index**)

Patents

- **“AI and ML Based Smart Inventory Management System for Industry 4.0”**, Indian, Published-03/01/2025.
- **“An Approach For Prediction Of Diseases To Suggest Doctors And Hospitals To Patient Based On Recommendation System”**, Indian, Published-12/1/2024.

NPTEL

- **Successfully completed course “Computer Graphics” 2023**

Springer / IEEE Conference

- Development of a Steganography Concept of Audio Data into Audio Using MATLAB and Its Transmission Over ZigBee Protocols, Lecture Notes in Networks and Systems 1794 LNNS DOI: 10.1007/978-3-032-15401-9(Scopus Index)
- Integrating Deep Learning and Augmented Reality for Personalized Dental Implantology: The Development and Application of the GIST-3DR System for Enhanced Precision and Visualization in Dental Implant Procedures, Lecture Notes in Networks and Systems 1792 LNNS, DOI: 10.1007/978-3-032-15401-9(Scopus Index)
- Quantum Convolutional Neural Network for Coffee Plant Disease Diagnosis, Proceedings of IEEE International Conference for Women in Innovation Technology and Entrepreneurship Icwite 2025, DOI: 10.1109/icwite64848.2025.11307161(Scopus Index)
- Comprehensive Solution and Implementation of an 4-Axis Selective Compliance Assembly Robotic Arm [SCARA] for Automated Pick-&-Place of Integrated Circuit Components onto Printed Circuit Boards, 2nd Asia Pacific Conference on Innovation in Technology Apcit 2025, DOI: 10.1109/apcit65661.2025(Scopus Index)
- Integrating Deep Learning and Augmented Reality for Personalized Dental Implantology: The Development and Application of the GIST-3DR System for Enhanced Precision and Visualization in Dental Implant Procedures, International Conference on Information Systems and Computer Networks Iscon 2025, DOI: 10.1109/iscon65210.2025.11341230(Scopus Index)
- Trustworthy AI-Powered Multimodal Biofeedback for Stress Management: An Explainable, Privacy-Preserving, and Fairness-Aware Framework, 7th International Conference on Innovative Data Communication Technologies and Application Icidca 2025, DOI: 10.1109/icidca66325.2025.11280321(Scopus Index)
- Overcoming Challenges in Multi-Modal Medical Image Analysis by Enhancing Medical Diagnostics with Multi-Stream Attention-Based CNNs, International Conference on Information Systems and Computer Networks Iscon 2025, DOI: 10.1109/iscon65210.2025.11340858(Scopus Index)
- Development And Implementation Of An Intelligent Deep Learning-Based Brain Tumor Detection System Integrated With Raspberry Pi For Real-Time Diagnostic Applications In The Field Of Biomedical Engineering, Control Instrumentation System Conference Ciskon 2025, DOI: 10.1109/ciskon66933.2025.11337679(Scopus Index)
- A Novel Approach to Advancing Drowsiness Detection Using Headangle and Eye-Aspect Ratio, 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS) | 979-8-3315-0546-2/24/\$31.00 ©2024 IEEE | DOI: 10.1109/CSITSS64042.2024.10816922. 01.01.2025 (Scopus Index)

National Conferences

- **“Web Conference Using Cloud Computing Technology”,** held on May

2015 at City Engineering College, Banaglore, Karnataka, India.

- **“Advance Wireless Sensor Network for Controlling Air Pollution Monitoring”**, Frontiers of Computer Science and Technology, page 83-86, held on 14rd and 15th Feb 2012 at Rajarajeswari College of Engineering, Bangalore, and Karnataka, India.
- **“Information security using RSFEC Encoder”**, Frontiers of Computer Science and Technology, page- 287-291, held on 14rd and 15th Feb 2012 at Rajarajeswari College of Engineering, Bangalore, and Karnataka, India.

Workshops, FDP's and Seminar

- Participated in 6 days International Faculty Development Program (Virtual) on "From Foundations to Frontiers: Deep Learning, Generative AI, and the Rise of Agentic Intelligence" jointly organized by the Department of Computer Science & Engineering, Data Science, Artificial Intelligence & Data Science and Artificial Intelligence and Machine Learning during 3rd - 8th August 2026 at Aditya College of Engineering and Technology, Bengaluru.
- Participated & completed the Faculty Development Program on Advanced Pedagogy for Effective Teaching, Learning & Assessment from 09-03-2026 to 21-03-2026, EICTA Consortium.
- Participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on Optimizing Next-Gen Computing for Smart System Development at National Institute of Technology Warangal from 13/10/2025 to 18/10/2025.
- Participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on Secure and Explainable Generative AI for Medical IoT Data Analytics at National Institute of Technology Puducherry from 25/08/2025 to 30/08/2025.
- Participated Five Days FDP held between 28-Jul-25 and 1-Aug-25 at Department of Computer Science and Business Systems, B.M.S. College of Engineering, Bengaluru on “Empowering Educators through Emerging IT Technologies”
- Quantum Verse: Advancing Knowledge in Quantum Computing, XR, and the Metaverse, 2025
- Participated Five days AICTE Training and Learning (ATAL) Academy FDP on **“Data Science”** from 2020-9-21 to 2020-9-25 at B.S. Abdur Rahman Crescent Institute of Science & Technology.
- Participated Five days AICTE Training and Learning (ATAL) Academy FDP on **“Block chain”** from 2020-11-3 to 2020-11-7 at Malnad College of Engineering.

- Attended three days FDP on “**Machine Learning**” held on 19th to 21th July 2018 at RNSIT, Bangalore.
- Attended one day workshop on “**Machine Learning Study Jam**” held on 7th July 2018 at Google Company, Bangalore.
- Attended seven days FDP on “**Mobile application development & python programming**” held on 22nd to 28th Jan 2018 at RRCE.
- Attended three days FDP on “**Network Engineering**”, held on 1st to 3rd August 2017 at RRCE.
- Attended Pre-Conference Tutorials on “**Software Engineering for Service and Cloud Computing, Topological Quantum Field Theories, Multimedia Analytics, Enterprise Architecture for Large Scale Reuse**” held on 11th May 2016 at RRCE, Bangeluru.
- Attended FEP on “**Android and Cloud Computing**” conducted by Departments of Computer Science and Engineering, Information Science and Engineering, Master of Computer Applications, RajaRajeswari College of Engineering, Bangalore on 4th June to 9th June 2015.
- Participation in the VTU Faculty Workshop on “**Incubating Relevant Engineering R&D Programs and Establishing Centers of Excellence in Engineering Colleges**” held at SIT during 10-13 May 2015.
- Presented a topic for Faculty Development Programme on “**Basics of Computer Graphics**” held on Dec 2013 at Rajarajeswari College of Engineering, Bangalore.
- Attended Technical seminar on “**Hadoop**” conducted by Department of Computer Science and Engineering, RajaRajeswari College of Engineering, Bangalore on 23rd of April 2014.
- Attended CSI Technical seminar on “**Introduction to Cloud Computing - A Techno-Business Perspective**” conducted by Department of Computer Science and Engineering, RajaRajeswari College of Engineering, Bangalore on 22nd of April 2014.
- Attended FDP on “**Grooming the Faculty Fraternity**” conducted at RajaRajeswari College of Engineering, Bangalore on 27th to 29th of January 2014.
- Attended FDP on “**Enhancing Academic Skills**” conducted by Department of Computer Science and Engineering, RajaRajeswari College of Engineering, Bangalore from 23rd to 26th of December 2013.
- Attended a Technical Seminar on “**Android – The Future in Mobile Computing**” conducted by Department of Computer Science and Engineering, RajaRajeswari College of Engineering, Bangalore on

7thSeptember 2013.

- Attended two days Faculty Development Programme on “**Enhancing Life Skills**” held on January 2012 at Rajarajeswari College of Engineering, Bangalore.
- Attended two days Faculty Development Programme on “**Innovation teaching Practices**” held on July 2012 at Rajarajeswari College of Engineering, Bangalore.
- Participated two days Workshop on “**Web Technologies & Information Management**” held on March 2009 under TEAIP, UVCE, Bangalore.