

RESUME

Dr. Mrutyunjaya M S, B.E, M.Tech, Ph.D.

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PROFESSIONAL SUMMARY

Associate Professor and Head of the Department (CSE – Data Science) with over 12 years of experience in teaching, research, and academic leadership. A VTU-recognized Research Supervisor with strong expertise in Artificial Intelligence, Machine Learning, Computer Vision, and Data Science. Proven record of Scopus-indexed publications, book authorship, patents, and AICTE-funded projects. Actively involved in NBA/NAAC accreditation, institutional development, entrepreneurship promotion, and faculty development programs, with demonstrated ability to build research culture and industry-academia collaboration.

PROFESSIONAL EXPERIENCE

- Working as Associate Professor and HoD of CSE (Data Science) since July 2024 at R L Jalappa Institute of Technology, Doddaballapura, Bengaluru Rural.
- Worked as Asst Professor Senior Scale in School of CS&E from July 2017 to June 2024 at Presidency University, Bengaluru.
- Worked as Asst Professor in department of CS&E from Aug 2014 to June 2017 Karavali Institute of Technology, Mangalore.
- Worked as a technical trainer at “Ishwar Global Technologies” Bengaluru, for a period of 1 year.

CAREER PROFILE

- Visvesvaraya Technological University Recognized Research Supervisor.
- Completed Ph.D. in Computer Science and Engineering from Presidency University Bangalore in 2023.
- Completed M.Tech (Computer science & Engg) from A.I.T Chikamagalore, in 2014.
- Completed B.E (Computer Science) from R.E.C affiliated to VTU.

- Completed Schooling from Jawahar Navodaya Vidyalaya, Chitradurga (X and XII), CBSE board.

Research & Teaching Expertise

- Artificial Intelligence and Machine Learning.
- Data Science, Data Visualization and Data Analytics.
- Computer Vision and Image Processing.
- Computer Systems & Networks.
- Core Computer Science & Programming.
- Software Engineering & Quality Assurance.
- Databases & Information Systems

Ph.D. RESEARCH CONTRIBUTIONS

Key Research Contributions

- Developed non-destructive rice grain quality assessment using image processing and statistical feature extraction.
- Proposed hybrid ensemble machine learning models for grain classification.
- Designed improved CNN architectures for grain quality analysis.
- Performed comparative analysis with existing state-of-the-art methods.

PUBLICATIONS

- Published an international journal on **“Quality analysis of rice grains using image processing techniques”** (IJCRD March 2014 Vol-2; Issue-3, eISSN: 2321-225X; pISSN:2321-2241).
- Published an international journal on **“Two-layer secured encryption and decryption methods for multimedia data”** (IJIET August 2013 Vol-2; Issue-4, ISSN:2319-1058).
- Published and presented a research paper on **“Grading and identification of different varieties of rice grains using image processing-A survey”** at BMSIT Bengaluru (NCSIM Sep 2013, ISBN: 9788192820309, Pg:90-93).
- Published an international journal on **“Identification rice grains using image processing techniques”** (International Journal of Advanced Research in Computer and Communication Engineering Vol.7, Issue 2, February2018).
- Published an international journal on **“An innovative automated examination system”**

(International Journal of Advanced Research in Science, Engineering and Technology Vol. 5, Issue 5, May 2018 E-ISSN:2347-2693).

- Published an international journal on “**An Efficient Image Processing Methodology to Assess Quality in Food Grains**” (International Journal of Computer Sciences and Engineering Vol.-7, Special Issue-16, May2019).
- Mrutyunjaya M S, Harishkumar K S, "A Novel Approach for Rice Grain Classification Using Machine Learning Techniques." Eur. Chem. Bull. 2023, 12(Regular Issue 4), 3962-3972.
- Mrutyunjaya M S, Harishkumar K S, “**Non-destructive Machine Vision System Based Rice Classification Using Ensemble Machine Learning Algorithms**”, Recent Advances in Electrical & Electronic Engineering 2023; 16(). <https://dx.doi.org/10.2174/2352096516666230710144614>).
- Published a book chapter on “**A Study on Various Bio-Inspired algorithms for Intelligent Computational System**” (Springer Link New Trends in Computational Vision and Bio-inspired computing pp 1533-1540, 28 Sept 2020).
- Presented a research paper on “**Skin Analytics Using Machine Learning and Deep Learning Techniques**” at National Conference on Recent Advancements and Challenges in Information Technology [NCRACIT-23] held at Presidency University, April 2023.
- Panwar, G.S., Mrutyunjaya, M.S., Agarwal, T., Kamalraj, R. (2025). “**Adaptive Filtering for Low-Energy Data Aggregation**”. In: Kumar, A., Gunjan, V.K., Senatore, S., Hu, YC. (eds) Proceedings of the 5th International Conference on Data Science, Machine Learning and Applications; Volume 2. ICDSMLA 2023. Lecture Notes in Electrical Engineering, vol 1274. Springer, Singapore. https://doi.org/10.1007/978-981-97-8043-3_25.
- Kaulgud, Sanjeev Prakashrao, Rama Krishna K, Mrutyunjaya M. S., Abhinandan Shirahatti, Murthy D. H. R., and Afroz Pasha. 2025. “**Leveraging Enhanced PSO and Proving Random Forest's Dominance for Prediction of Lung Cancer Severity.**” Journal of Information Systems Engineering and Management 10 (3).
- Mrutyunjaya, M. S., Sunil Kumar R. M., Karthik B. U., and Murthy D. H. R. 2025. “**Predicting Cardiovascular Disease Using Ensemble Machine Learning Algorithms.**” *International Journal of Scientific Engineering (OAIJSE)* 8 (1).
- Pasha, Afroz, Prasad P. S., Mrutyunjaya M. S., Karthik B. U., Varalakshmi K. R., and Rekha M. S. 2025. “**A Novel Approach for Brain Tumor Classification Using Bilateral Filtering and Cascade RF-SVM.**” *Communications on Applied Nonlinear Analysis* 32 (10s): 296.
- Mrutyunjaya, M. S., Faria Begum. 2025. “**Explainable AI for Career Prediction Systems: A SHAP-Based Framework for Transparent Decision-Making.**” *Journal of Engineering and Technology Management* 77.
- Sunil Kumar, R. M., Mrutyunjaya M. S., Karthik B. U., and Murthy D. H. R. 2025. “**A Novel Approach for Improving the Multiauthority Ciphertext-Policy for Blockchain Based Digital Rights Management Scheme.**” *International Journal of Scientific Engineering (OAIJSE)* 8 (1).

- Mrutyunjaya, M. S., Aswini. 2025. **“The Role of Generative AI in Modern Education: Trends, Frameworks, and Ethical Considerations.”** *Journal of Engineering and Technology Management* 77.
- Mrutyunjaya, M. S. **“Plant Disease Detection Using Deep Learning.”** *International Journal of Research Publication and Reviews (IJRPR)* 6, no. 5 (May 2025). ISSN 2582-7421.
- Mrutyunjaya M. S. **“Quantum Diagnosis: Revolutionizing Skin Tumors Classification with Quantum Machine Learning.”** Paper presented at the Second Edition of the International Conference on Data Science and Exploration in Artificial Intelligence (Code AI 2025), Department of Information Technology, MIT, Manipal Academy of Higher Education (MAHE), Bengaluru, April 7–8, 2025.
- Mrutyunjaya M. S., Lekhana S., Monika A., and Manjula K. **“Predictive Analytics of Health and Disease Detection using Machine Learning Techniques.”** *International Journal of Research Publication and Reviews (IJRPR)*. ISSN 2582-7421. Available at: www.ijrpr.com.
- Mrutyunjaya, M. S. **“Big Data and Machine Learning Approaches in Mental Health Nursing: A Statistical Perspective for Patient-Centered Care.”** *Journal of Mental Health Nursing & Statistics*. p-ISSN 3117-4345, e-ISSN 3117-4353 August 152025.
- Kaulgud, Sanjeev Prakashrao, T. Satyanarayana, Mrutyunjaya M. S., Rama Krishna K., and Abhinandan Shirahatti. **“Machine Learning-Driven Fault Prediction of Yarn Materials in Spinning Machines.”** *Asian Textile Journal*, September 2025, 35–40.

GRANTS RECEIVED & APPLIED

- Granted 1 lakh rupees by AICTE - ATAL to conduct 6 days online FDP titled “Exploring Emerging Technologies in Next-Gen Communication Networks” AY 2024.
- Granted 2 lakh rupees by AICTE - ATAL VAANI to conduct 3 days’ offline workshop in kannada titled “Foundations, Frontiers, and Future Directions in Cybersecurity and Cyber-Physical Systems” AY 2025.
- Granted 1 lakh rupees by AICTE - ATAL to conduct 6 days online FDP titled “Innovations in Space and Defense: Integrating Artificial Intelligence, Cybersecurity, Advanced Materials, and Energy Solutions” AY 2025.
- The project proposal titled “Development and Integration of Class A, Class B, and Class C Medical Devices with Cloud-Based Platforms to Provide Cost-Effective Access to Essential Healthcare Services” has been submitted to the Division: National Science and Technology Management Information System (NSTMIS) under the Programme: NSTMIS.
- The project proposal titled “Cultivating Scientific Minds: Strategies for STEM Student

Engagement and Professional Growth” has been submitted to the Division: NCSTC under the Programme: Call for Proposal under NCSTC Division.

- The project proposal titled “Science and Cyber Shield: Strengthening Communities through Awareness and Outreach” has been submitted to the Division: NCSTC under the Programme: Call for Proposal under NCSTC Division.

BOOKS PUBLISHED

- Hands-on Data Visualization in R authored by Mrutyunjaya M. S., Murthy D. H. R., Priyanka T. V., and Karthik B. U. Published by Clever Fox Publication, ISBN: 978-93-67076-91-0.

PATENTS

- Published an Indian patent titled “Driver Drowsiness Detecting Device Based on AI”
- Published an Indian patent titled “AI Enabled Marine Animal Recognition System”.

INSTITUTIONAL RESPONSIBILITIES

Departmental Leadership

- Head of the Department, CSE (Data Science)
- Instructor-in-Charge
- Program Advisory Committee (PAC) Coordinator

Accreditation, Quality Assurance & Governance

- NBA Steering Committee – Central Coordinator (CSE)
- NAAC Criterion-I Coordinator
- Departmental Academic Committee (DAC) Member
- Departmental Quality Assurance Committee (DQAC) Member

Research, Innovation & Entrepreneurship

- Faculty Coordinator – E-Cell (IIT Bombay)
- Faculty Coordinator – Incubation Centre
- Innovative Projects Faculty Coordinator
- Build Club Coordinator
- Institution SPOC for Smart India Hackathon

Student Development, Projects & Internships

- University Project & Internship Central Coordinator
- Placement Committee Member

Examinations & Discipline

- Examination Cell Committee Member
- Discipline Committee Member

EDITORIAL AND PEER-REVIEW CONTRIBUTIONS

- Editorial Board Member at Edwin Group of Journals.
- Reviewer, Second Edition of the International Conference on Data Science and Exploration in Artificial Intelligence (Code AI 2025), Department of Information Technology, MIT, Manipal Academy of Higher Education (MAHE), Bengaluru, April 7–8, 2025.
- Reviewer, Second IEEE International Conference on New Frontiers in Communication, Automation, Management and Security (NFCAMS 2025), School of CSE & IS, Presidency University, Bengaluru, July 11–12, 2025.
- Reviewer, Second IEEE International Conference on Advances in Information Technology (ICAIT-24), Department of Computer Science & Engineering, Adichunchanagiri Institute of Technology, Chikkamagaluru, Karnataka, India, July 24–27, 2024.

CERTIFICATIONS

- Completed the professional training course on Designing and Deploying Computer Networks from Internet Society.
- Completed Online Certification in Digital image processing using MATLAB from Udemy.
- Completed Certification in software testing from TIMES TECHNOLOGIES Bengaluru.
- Completed Certification in Advanced C and UNIX from UTTARA institute Bengaluru.

AWARDS AND RECOGNITIONS

- Received the **Best Faculty Award** for the Academic Year 2024–25 from R. L. Jalappa Institute of Technology in recognition of significant contributions to teaching excellence, research advancement, successful acquisition of Central Government grants, and overall institutional growth.
- Received the **Best Paper Award** at National Conference on Cognitive Computing [NCCC 19] held at Presidency University during 22nd and 23rd March 2019

CONFERENCE/WORKSHOPS/FDP/INVITED TALKS

AICTE–ATAL FDPs & Workshops (Coordinator / Resource Person)

- Coordinator, AICTE–ATAL FDP on Exploring Emerging Technologies in Next-Gen Communication Networks (Nov 2024) – Grant ₹1,00,000.
- Coordinator, AICTE–ATAL VAANI Workshop on Foundations, Frontiers, and Future Directions in Cybersecurity & Cyber-Physical Systems (July 2025) – Grant ₹2,00,000.
- Coordinator, AICTE–ATAL FDP on Innovations in Space and Defense: Integrating AI, Cybersecurity, Advanced Materials, and Energy Solutions (Nov 2025) – Grant ₹1,00,000.
- Resource Person, AICTE–ATAL Online FDP – session on Business Intelligence for Strategic Decision Making across Finance, Marketing, and HR organised by SDUIM Doddaballapura, Bangalore.

Invited Talks & Faculty Development Sessions

- Invited Speaker, “Think Like a Computer and Build Like an Engineer” for first-year students at R. L. Jalappa Institute of Technology, focusing on problem-solving and computational thinking.
- Invited Speaker, faculty session on Innovative Teaching Pedagogy and Project-Based Learning.
- Resource Person, hands-on FDP on Research Article Writing, covering manuscript preparation, publication ethics, journal selection, and AI-based research writing tools.

Conferences & Academic Events

- Organizing Committee Member, IEEE International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS 2023)
- Organizing Committee Member, National Conference on Recent Advancements and Challenges in Information Technology (NCRACIT-23)
- Organizing Committee Member, National Conference on Cognitive Computing (NCCC-19)

Innovation, Hackathons & Entrepreneurship Activities

- Coordinator, EUREKA Ideathon in collaboration with E-Cell, IIT Bombay
- Faculty Coordinator, Smart India Hackathon & Anveshana
- Coordinator, Build Club Hands-on Training on Dexter Boards, IIT Madras Research Park

Professional Training & Participation

- Participant & Volunteer, Train-the-Trainer Workshop on Cybersecurity Awareness, IISc Bengaluru.
- Participant, Workshop on Research Methodology & LaTeX (2023)

- Participant, FDP on Design Thinking (2022)
- Participant, FDP on Arduino Using Embedded C – Hands-On (2022)

GUIDED STUDENT PROJECTS

- Content Based Image retrieval using image processing techniques.
- An Appearance Based Human Motion Tracker Using Color Histogram and Color Correlogram Model.
- Range prediction system using deep learning techniques.
- Swarm Robotics in target search.
- Credit card fraud detection using machine learning techniques.
- Skin Analytics Using Machine Learning and Deep Learning Techniques.
- Artificial Intelligence in Farming.
- Ai Powered Skill and Career Development System.
- Block Chain-Powered Land and Property Registration System.
- Ai Prize Bot.

EXTRA CURRICULAR ACTIVITIES

- Represented Basket & Volleyball teams at Cluster, Regional levels in U-19 category and won the volleyball championship at regional level.
- Represented college Basketball team at VTU zonal level meets.

DECLARATION

I hereby declare that the above-mentioned information is true of my knowledge and belief.

Place : Bengaluru.

Date: 10th Dec 2025.

(Dr. Mrutyunjaya M S)