

R. SRIDIVYA

Assistant Professor | Computer Science & Engineering

Peddapuram, Kakinada Dist., Andhra Pradesh | Mobile: 7386880743 | Email: rayavarapudivya@gmail.com | LinkedIn: linkedin.com/in/sridivyarayavarapu

PROFESSIONAL SUMMARY

Dedicated Assistant Professor with 12+ years of teaching experience in Computer Science & Engineering. Ph.D. candidate at JNTU Kakinada (expected 2028) with 15+ research publications in indexed journals and IEEE conferences. Expertise in curriculum development, pedagogy, student mentoring, and applied research across Machine Learning, IoT, Data Science, and Networking. Experienced Timetable Coordinator (4 years) and NAAC Sports Coordinator (3 years). WIPRO-certified and NPTEL-awarded educator committed to academic excellence and student empowerment.

EDUCATION

- **Ph.D. (Pursuing, Expected Completion: 2028) — Computer Science & Engineering** | Jawaharlal Nehru Technological University (JNTU), Kakinada
- **M.Tech — Computer Science & Engineering** | Sri Sai Aditya Institute of Science & Technology, Peddapuram | 76.5% | 2011 – 2013
- **B.Tech — Computer Science & Engineering** | Aditya Engineering College, Peddapuram | 56% | 2004 – 2008
- **Intermediate** | St. Mary's Junior College, Janagaon | 77.4%
- **SSC** | St. Mary's Girls High School, Kothagudem | 76.3%

PROFESSIONAL EXPERIENCE

- **Assistant Professor** | Aditya University, Surampalem | *May 2021 – Present*
- **Assistant Professor** | Ideal Institute of Technology, Kakinada | *June 2019 – April 2021*
- **Assistant Professor** | Pragati Engineering College, Surampalem | *June 2014 – May 2019*

Key Responsibilities & Contributions:

- Delivered lectures and lab sessions in DBMS, Operating Systems, Machine Learning, Data Structures, and Programming Languages (C, C++, Python, Java)
- Developed and updated course curriculum aligned with JNTUK syllabus and industry standards
- Mentored 20+ student projects integrating ML, IoT, and Smart Systems for real-world problem solving
- Guided student team to 2nd Prize (International Level) at IEEE YESIST12 2024 Grand Finale, Tunis, Tunisia
- Ratified Faculty Member by JNTU Kakinada — Aditya College of Engineering & Technology (March 2022) and Pragati Engineering College (September 2016)
- Received Annual Performance Appraisal for exceptional dedication and institutional contribution
- Served as Timetable Coordinator for 4 years, managing academic scheduling, faculty allocation, and conflict resolution across departments
- Served as NAAC Sports Coordinator for 3 years, coordinating student sports activities and maintaining documentation for accreditation compliance
- Served as Machine Learning Course Coordinator, overseeing syllabus design, lab structure, and assessment frameworks for the ML curriculum
- Served as Operating Systems Course Coordinator, managing course delivery, faculty coordination, and student evaluation for the OS program

TECHNICAL SKILLS & COMPETENCIES

- **Programming Languages:** C, C++, Python, Java (OOP)
- **Core CS Subjects:** Data Structures, DBMS, Operating Systems, Computer Networks
- **Emerging Technologies:** Machine Learning, Artificial Intelligence, IoT, Data Science, Cloud Computing (AWS)
- **Teaching Competencies:** Curriculum Development, Pedagogy, Syllabus Design, Student Assessment, Laboratory Supervision, Academic Mentoring
- **Tools & Platforms:** NPTEL, Infosys Springboard, LinkedIn Learning, IEEE Digital Library

CERTIFICATIONS

- WIPRO Certified Faculty — Java Full Stack Development (TalentNext, March 2024)
- Machine Learning Foundation — Infosys Springboard
- Explore Machine Learning Using Python — Infosys Springboard
- Artificial Intelligence Foundations: Machine Learning — LinkedIn Learning
- Joy of Computing Using Python — NPTEL (Elite Certification)
- Programming in C++ — NPTEL (Elite Certification)
- Python for Data Science — NPTEL
- Internet of Things (IoT) — NPTEL
- Python Using Data Structures — NPTEL

RESEARCH PUBLICATIONS (15+ PAPERS IN INDEXED JOURNALS & IEEE CONFERENCES)

2026

1. "Transforming Network Connectivity: A Comprehensive Guide to Implementing and Assessing SD-WAN Infrastructure with CISCO Technologies" — International Journal of Proceedings on Engineering Sciences, Vol.7, No.4, pp.2807–2818, ISSN: 2620-2832, January 2026.
2. "Securing Organizational Records with Blockchain: A Role-Based Authentication and Sharing System" — International Journal of Proceedings on Engineering Sciences, Vol.7, No.4, pp.2797–2806, ISSN: 2620-2832, January 2026.

2025

3. "Automated Detection of Multiple Sclerosis Lesions in MRI Using an Explainable AI Framework with Hierarchical Feature Fusion" — International Journal of Theoretical and Applied Information Technology, Vol.103, No.21, pp.9094–9104, ISSN: 1992-8645, November 2025.
4. "Secure Honeynet Cloud IoT Model and Machine Learning-Based Smart Healthcare System with Urban Management" — International Journal of Cyber Security and Information Management (JCIM), Vol.17, No.1, pp.71–80, July 2025.
5. "Machine Learning-Driven Improvements in Software Delivery Pipelines" — International Journal of Theoretical and Applied Information Technology, Vol.103, No.19, ISSN: 1992-8645, October 2025.
6. "Resilience-Oriented Decision Support System for Ecosystem Management: Integrating Machine Learning and Participatory Modeling" — International Journal of Environmental Protection and Ecology, Vol.26, No.3, pp.1001–1010, April 2025.
7. "Machine Learning Approach for Predicting Altitude Sickness Susceptibility through Personalized Pre-Acclimatization Protocols" — International Journal of Environmental Protection and Ecology, Vol.26, No.2, pp.473–483, February 2025.
8. "Efficient Forest Fire Detection in Low-Maintenance Wireless Sensor Networks Using Resource Allocation Techniques" — International Journal of Environmental Protection and Ecology, Vol.26, No.3, pp.1050–1060, December 2024.

2024

9. "An Efficient Model for Brain Tumor Classification through Transfer Learning Approaches" — IEEE ICSES 2024, DOI: 10.1109/ICSES63760.2024.10910833.
10. "Optimizing Feature Selection Process through Variation Inflation Factor for Air Pollution Analysis" — ICSES-2024, Pokhara University, Nepal.
11. "An Efficient Churn Prediction Model Using ML Supervised and Semi-Supervised Learning Techniques" — IEEE I2CT, April 2024.
12. "A Hybrid K-Means and ML Classification Approach for Credit Card Fraud Detection" — 3rd International Conference for Innovation in Technology, March 2024.

Earlier Publications

13. "An Experimental Explore Between Execution Time and Different Performance Evaluation on Keyword Search Techniques" — International Journal of Advanced Technology and Innovative Research, August 2017.
14. "A Survey on Hybrid Approach for Data Sharing in Untrusted Cloud Using Secure Mona Protocol" — International Journal of Innovative Research in Computer and Communication Engineering, Vol.4, Issue 9, September 2016.
15. "Multi-Core Map-Reduce Implementation for Efficient Resource Management" — International Journal of Innovative Research in Computer and Communication Engineering, Vol.2, Issue 6, October 2014.

PROFESSIONAL DEVELOPMENT — FDPS & WORKSHOPS

Artificial Intelligence & Machine Learning

- One-Week FDP on Machine Learning in Engineering Applications — Pragati Engineering College, June 2025

- One-Week FDP on Foundations of Quantum Machine Learning — Aditya University, June 2025
- Six-Day FDP on Machine Learning and its Real-Time Applications — NIT Warangal at Pragati Engineering College, August–September 2018
- Twelve-Week FDP on Joy of Computing Using Python — NPTEL-AICTE, January–April 2019
- 15-Day FDP on Data Science and Its Applications in STEM — Andhra University / JNTUK / APSCHE, September 2020

Cloud Computing, Big Data & Emerging Technologies

- One-Week FDP on Amazon Web Services (AWS) — Aditya College of Engineering & Technology with Brainovision & AICTE, August 2022
- Two-Day FDP on Big Image Data Processing on Hadoop Framework — Pragati Engineering College, March 2016

Python Programming, Data Science & IoT

- Two-Day Workshop on Hands-on Data Science Using Python — Aditya College of Engineering & Technology, September 2021
- One-Day FDP on Python Workshop — IIT Bombay (Teaching Learning Centre), June 2019
- One-Day National-Level Workshop on Internet of Things: A Research Perspective — JNTU Kakinada, March 2017

Database Systems & Teaching Methodology

- Two-Week FDP on Fundamentals of Databases — NIT Warangal, June–July 2017
- One-Day Workshop on Improving Presentation Skills in Teaching — JNTUK Kakinada, September 2016

KEY ACHIEVEMENTS

- Mentored student team to 2nd Prize (International Level) at IEEE YESIST12 2024 Grand Finale, Tunis, Tunisia
- Received Annual Performance Appraisal for exceptional dedication and academic contribution
- Ratified Faculty Member by JNTU Kakinada for two engineering institutions
- WIPRO Certified Faculty in Java Full Stack Development (2024)
- M.Tech Research: "Optimization of Traffic Analysis of VANET and Route Optimization" — contribution to intelligent transport systems
- Awarded Elite Certification in Joy of Computing Using Python and Programming in C++ by NPTEL
- Timetable Coordinator for 4 years — ensured seamless academic scheduling and resource management across departments
- NAAC Sports Coordinator for 3 years — organized inter-collegiate sports events and maintained sports records for NAAC accreditation
- Machine Learning Course Coordinator — designed and managed end-to-end course delivery, assessments, and lab sessions for the ML program
- Operating Systems Course Coordinator — coordinated faculty, curriculum, and student assessments for the OS course across batches