



FACULTY PROFILE ON WEBSITE

Faculty Name	Dr. Shiva Sumanth Reddy	
Academic Designation	Associate Professor	
Educational Qualification	PhD	
Experience in Teaching & Industry	14 & 0	
Date of Joining	23-07-2014	
Official Email ID	sumanth-cse@dsatm.edu.in	
Employee ID	180228	

Educational Details

- **Ph.D. in Computer Science and Engineering**, Visvesvaraya Technological University (VTU), Belagavi, Karnataka.
- **Master of Technology (M.Tech.) in Computer Science and Engineering**, Nitte Meenakshi Institute of Technology (NMIT), Bengaluru, Karnataka.
- **Bachelor of Engineering (B.E.) in Computer Science and Engineering**, SJC Institute of Technology (SJCIT), Chikkaballapur, Karnataka.

Professional Experience

- **Associate Professor**, Department of Computer Science and Engineering, **Dayananda Sagar Academy of Technology and Management (DSATM)**, Bengaluru, **November 2023 – Present**.
- **Assistant Professor**, Department of Computer Science and Engineering, **Dayananda Sagar Academy of Technology and Management (DSATM)**, Bengaluru, **June 2014 – October 2023**.
- **Assistant Professor**, Department of Computer Science and Engineering, **Vidya Vikas Institute of Engineering and Technology (VVIET)**, Mysuru, **June 2012 – May 2014**.

Publications

- Manjunath, D. R., Preetha, S., Anil Kumar, B., and Siva Sumanth Reddy, Krupa K. S. "Human-Guided Agentic AI for Skill Formation in Indian Higher Education: A Framework-Centred Study for Learner Modelling, Skill-Gap Diagnosis and Responsible Evaluation." *International Journal of Special Education*, vol. 41, no. 7S, 2026, pp. 1123–1140.
- Nandini, C., Reddy, Shiva Sumanth, Lutimath, Nagaraj M., Sandhya, N., and Chikop, Shivaprasad Ashok. "Anomaly Detection Utilizing Diffusion Variational Graph Neural Network Optimized with Spider Wasp Optimizer in Medical Time Series Data." *Biomedical Signal Processing and Control*, vol. 119, 2026, article 109724.
- Shivashankar, Janani, et al. "Automatic Image Annotation and Retrieval Using Fuzzy C-Means Clustering with Gaussian Bare Bones White Shark Optimization." *International Journal of Intelligent Engineering & Systems*, vol. 18, no. 1, 2025.
- Nandini, C., and Reddy, Shiva Sumanth. "Detection of Communicable and Non-Communicable Disease Using LeNet-BiLSTM Model in Pathology Images." *International Journal of System Assurance Engineering and Management*, vol. 15, no. 1, 2024, pp. 243–252.
- Jahnavi, S., and Nandini, C. "Secure Two Fold Transmission of Features Using Multimodal Mask Steganography and Naive Based Random Visual Cryptography System." *International Journal of System Assurance Engineering and Management*, vol. 15, no. 1, 2024, pp. 232–242.
- Manjunath, D. R., et al. "Enhancing Personalized Learning Based on AI-Driven Lesson Plan Generator Using Mistral-7B for Efficient Content Extraction and Summarization." *Gravida*, 2024.
- Reddy, Shiva Sumanth, and Manjunath, D. R. "Enhancing Data Security and Traceability in Supply Chain Management Using Blockchain Technology." *Journal of Cyber Security in Computer System*, vol. 3, no. 3, 2024, pp. 11–24.
- Reddy, Shiva Sumanth. "A Comprehensive Review of Machine Learning Approaches in Livestock Health Monitoring." *Journal of Big Data Technology and Business Analytics*, vol. 3, no. 3, 2024, pp. 11–19.
- Reddy, Shiva Sumanth, and Nandini, C. "Detection of Communicable and Non-Communicable Diseases Using Hyperparameter Optimization with Bi-LSTM Model in Pathology Images." *International Journal of Intelligent Computing and Cybernetics*, vol. 16, no. 4, 2023, pp. 649–664.
- Reddy, Shiva Sumanth, and Nandini, C. "Edge Boost Curve Transform and Modified ReliefF Algorithm for Communicable and Non-Communicable Disease Detection Using Pathology Images." *Journal information unavailable*, 2021.
- Reddy, K. Rushikesh, et al. "Super Predictor of Indian Premier League (IPL) Using Various ML Techniques with Help of IBM Cloud." *International Journal of Scientific Research in Engineering and Management*, 2022.
- Reddy, Shiva Sumanth, et al. "A Framework with IoAHT for Heat Stress Detection and Haemoprotozoan Disease Classification Using Multimodal Approach Combining LSTM and CNN." *Proceedings of International*

Conference on Recent Trends in Computing (ICRTC 2022). Springer Nature, 2023.

International Conferences:

- Sumanth reddy., et al. "Reawakening The Past: Ancient Animals Explored By AI." *Proceedings of the 4th International Conference on Knowledge Engineering and Communication Systems (ICKECS)*. IEEE, 2026.
- Sumanth reddy., et al. "SpaceGuard: An AIML Based Cybersecurity Framework for Solar Wind Classification and Space Weather Prediction System for ISRO's Aditya-L1 Dataset." *Proceedings of the 4th International Conference on Knowledge Engineering and Communication Systems (ICKECS)*. IEEE, 2026.
- Sumanth reddy, et al. "A Unified Deep Learning-Based Architecture for Real-Time Monitoring and Classification of Fungal and Viral Crop Infections in Precision Agriculture." *Proceedings of the 2nd International Conference on Big Data & Machine Learning (ICBDML)*. IEEE, 2026.
- Reddy, Shiva Sumanth, et al. "Automatic Accident Detection Using Global Modeling Module and Dynamic Convolution Acceleration Integrated You Only Look Once Version 11 Framework." *Proceedings of the 2nd International Conference on Intelligent Systems and Computational Networks (ICISCN)*. IEEE, 2026.
- Sumanth reddy,Paramasivam, Ramya, et al. "JellyFish Search Optimization with Arctic Puffin Optimization Algorithm for Efficient Routing Based on the Software Defined Communication Network." *Proceedings of the 2nd International Conference on Intelligent Systems and Computational Networks (ICISCN)*. IEEE, 2026.
- Sumanth reddy et al. "Cyberattack Detection and Mitigation in Autonomous Navigation Vehicles Using NAVDEF and LSTM." *Proceedings of the 2nd International Conference on Software, Systems and Information Technology (SSITCON)*. IEEE, 2025.
- Sumanth reddy et al. "AI-Driven Adaptive Smart Irrigation System Using Machine Learning for Sustainable Agricultural Water Management." *Proceedings of the 2nd International Conference on Software, Systems and Information Technology (SSITCON)*. IEEE, 2025.
- Sumanth reddy,Lutimath, Nagaraj M., et al. "Efficient Flower Classification Using Transfer Learning with Enhanced MobileNetV2 Framework." *International Conference on Artificial Intelligence and Networking*. Springer Nature, 2025.
- Reddy, Shiva Sumanth, and Nandini, C. "A Novel Framework with Forbidden Positions Based Paradigm to Detect the Behavioral Anomaly in Cattle." *Proceedings of the International Conference on Knowledge Engineering and Communication Systems (ICKES)*. IEEE, 2022.
- Reddy, Shiva Sumanth, and Nandini, C. "Early Detection of Estrus and Heat Stress Using IoAHT and Analytics in Indian Cattle to Overcome Repeat-Breeding Syndrome." *Proceedings of the 1st International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE)*. IEEE, 2019, pp. 220–224.

National Conferences:

- Kumar, Manoj, Reddy, Shiva Sumanth, Brunda, P., and Srinivasa, G. "Client Server Based Image Enhancement in Android Phones."
- Honnaraju, B., Kumar, Manoj, and Reddy, Shiva Sumanth. "Image Encryption by Using Pixel Value Rotation."

Conference Attended

Participated as evaluator in the 2nd IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS 2024, SJC Institute of Technology, Chickballapur, Karnataka, India, 23 – 24 April 2024

Awards

- **Finalist**, Agri India Hackathon.
- **ICAR–NaaViC NEO Grant** Recipient for developing an AI-based cattle disease detection system(2023-2025) Completed.
- **AICTE Research Promotion Scheme (RPS) Grant** Recipient for the project *Sensor-Based Smart Nose Ring for Detection and Prevention of Metallic and Plastic Foreign Object Ingestion in Cattle*(2026 ongoing).

Academic Activity

- **NBA Coordinator**, Department of Computer Science & Engineering, **2017–2022**.
- **Test Coordinator**, Department of Computer Science & Engineering, **2017–2022**.
- **Deputy Controller of Examinations (DCOE)**, Dayananda Sagar Academy of Technology and Management, **2022 – Present**.

Faculty Development Activity/Workshops

- **Online Faculty Development Programme on Generative AI and Its Applications**, December 2025.
- **Online Faculty Development Programme on Future of AI in Education: Enhancing Teaching and Learning**, April 2025.
- **Online Faculty Development Programme on AI for Business Analytics**, May 2026.
- **One-Week International Online Faculty Development Programme on "Empowering Educators with AI: From Research Tools to Generative Innovations"**, December 2024 – January 2025

Contact Details

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