

Faculty Profile

Name	: Ms. Sumana K M	
Designation	: Assistant Professor	
Department	: Computer Science and Engineering	
Contact Details		
E-mail	: sumanakm@nie.ac.in	
Phone	: 8660857058	

About me:

Ms. Sumana K M is an Assistant Professor in the Department of Computer Science and Engineering at The National Institute of Engineering, Mysuru. She is pursuing Ph.D in Computer Science and Engineering under Visvesvaraya Technological University (VTU). Her research interests include Machine Learning, Data Analytics, and Smart Agriculture, with a focus on AI-based solutions for enhancing agricultural productivity through advanced machine learning techniques.

She has completed several certification courses through NITTTR, NPTEL and Coursera, and attended various workshops and training programs to enhance her knowledge in the field of Computer Science.

She has published several research papers in reputed journals and Scopus indexed conferences. She has guided various undergraduate (UG) and postgraduate (PG) student projects. She has undertaken various responsibilities assigned by the Department and the Institute, such as ERP-Samarth Team Member, BOE Member, BOS Member, Time Table Committee Member, Proctorship and Course Registration Coordinator.

Qualification:

- Ph.D - Computer Science & Engineering, VTU - Pursuing
- M.Tech - Computer Engineering, VTU.
- B.E. - Information Science & Engineering, VTU.

Courses Taught:

- C Programming
- Object-Oriented programming with C++
- Database Management Systems
- Artificial Intelligence
- Operating systems
- Web commerce
- Data Structures
- Software Engineering
- Software Architecture
- Web Programming
- Research Methodology

Publications :

Journal Publications

- **Ms Sumana K M**, Chandan N U, Chandra Chuda M S, Sharanidhi M N, Varun D K, “Mindset Analyzer”, International Advanced Research Journal in Science, Engineering and Technology Vol. 11, Issue 5, May 2024.
DOI: 10.17148/IARJSET.2024.11554

Conference Proceedings

- **K.M. Sumana**, K.S. Rekha “A Study of Efficient Management of Nutrients in Fertilizers using IoT and ML” ,Proceedings of the International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2022) IEEE Xplore Part Number: CFP22BC3-ART; ISBN: 978-1-6654-9710-7
DOI: [10.1109/ICAAIC53929.2022.9793124](https://doi.org/10.1109/ICAAIC53929.2022.9793124)
- Antriksh Narang, Rekha K S, **Sumana K M** ,“Project Pulse: A Scalable, Secure, and Smart Project Management Platform on AWS” in 3rd International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS):
DOI:[10.1109/ICSSAS66150.2025.11080956](https://doi.org/10.1109/ICSSAS66150.2025.11080956)
- **Sumana K. M**, Usha K. Patil, “A Hybrid Quantum Deep Learning Framework for Rice Yield Prediction Using Optical Remote Sensing Data,” in Proceedings of the 2025 International Conference on Computing Technologies (ICOCT), Jyothy Institute of Technology, Bengaluru, India, June 13–14, 2025.
DOI: [10.1109/ICOCT64433.2025.11118754](https://doi.org/10.1109/ICOCT64433.2025.11118754).
- Usha K. Patil, Navneet, Chinmayee, Chaitra, **Sumana K M** ,“Enhancing Accessibility and Communication Through ML-driven Sign Language Recognition and Assistive Virtual Interaction,” in *Proceedings of the 14th International Conference on Recent Challenges in Engineering & Technology (ICRCET)*, IFERP, Bangalore, India, 26–27 April.

Other Achievements

Patents Published:

- IoT and Artificial Intelligence-Based Smart Farming System using Cloud Computing and Wireless Sensor Network. Application No: 202441016246
- Fraud detection device. Application No: 464763-001

Professional Memberships

- Member-IFERP
