Name of Faculty	Ms. P. Kiranmaie	
Designation	Assistant Professor	
Nature of Job/Appointment	Regular	
Date of Joining	08-11-2021	
E-mail	kiranmaie_it@cbit.ac.in	
Education Qualifications	**Name of the Degree**	**Class**
Ph. D	Doctor of Philosophy (CSE) Pursuing in NIT- Warangal	Pursuing
PG	M.E. (CSE)	First with Distinction
UG	B.Tech (CSE)	First with Distinction
Work Experience		
Teaching	10 Years	
Research	03 years	
Industry	--	
Others	--	
Area of Specialization	DevOps Tools, Image Processing, Smart Cities, Intelligent Transportation Systems, Data Structures(C, Cpp, Java, Python), Discrete Mathematics, Competitive Programming.	
Professional Memberships	IEEE Society (99456162) IAENG (549647).	
Responsibilities held at Institution Level	DDC Club Coordinator	
Responsibilities held at Department Level	1. Served as a Student Mentor, Course Coordinator. 2. Supervised major projects and M-Tech Projects. 3. Maintained Criterion 1 documentation and files for NBA accreditation.	
Research Guidance	-	
Awards Received	-	
Courses Handled at Under Graduate / Post Graduate Level.	DevOps Tools, Image Processing, Data Structures (C, CPP, Java, Python), Programming languages (C, CPP, Java, object oriented, Python), Data Analysis using R Programming, Operating Systems, Discrete Mathematics and Algorithms, Ethical Hacking, Semantic Web and Social Networks.	
No. of Papers Published	National Journals – 02	International Journals – 02
	National Conference – 0	International Conference – 10

Projects Carried out	IN House project *"An end to end Violation Detection and License Plate Recognition using QWEN 7B,"* sanctioned by CBIT (Project Code: CBIT/PROJ-IH/1062/1T/DO05/2025), with a grant of ₹1,20,000.
Patents	03 Patents 1. Published patent application: *"Solar-Powered GPS Tracking System for School Buses with Real-Time Alerts,"* Application No. 202641031111, filed 15 March 2026, published 27 March 2026, India. 2. Published patent application: *"Real-Time Machine Vision System and Method for Automated Industrial Quality Control,"* published 19 June 2025, India. 3. Published patent application: *"A System and Method for Self-Evolving Machine Learning Algorithm for Enhanced Predictive Analytics,"* Application No. 202541060156 A, published 04 July 2025, India
Technology Transfer	-
Invited Speaker	1. Delivered an invited lecture on "Evolutionary Algorithms and Genetic Optimization Techniques" at the IEEE Computational Intelligence Society Chapter, IEEE Vardhaman Student Branch, Vardhaman College of Engineering, on 19 April 2026. 2. Delivered a guest lecture on "Competitive Coding Workshop" for the Department of Biotechnology, Chaitanya Bharathi Institute of Technology, on 16 and 19 November 2024. 3. Served as a resource person for "Advanced Tools and Technologies for Healthcare Monitoring" during the National-Level One-Week Faculty Development Programme on Deep Learning Solutions in Healthcare, Department of Information Technology, CBIT, on 19 February 2024. 4. Served as invited guest faculty at NALSAR University of Law, Hyderabad, delivering sessions on Indian Knowledge Systems and DevOps Tools on 9 April, 9 October, 11 October, and 8 November 2025.
No. of Books/Chapter Published with details	1) Reddy, K. A., Charan, V. S., Sufiyan, M., Kiranmai, P., Madhuri, T., and Venugopala Chari, M., "A Study on Automation of Traffic Violation Detection," in *Smart Trends in Computing and Communications*, Springer Nature, Singapore, 2025. eBook ISBN: 978-981-96-7508-1; print ISBN: 978-981-96-7507-4. 2) Puvulla, K., Gopalachari, M. V., Edla, S., Vasam, S., and Thakur, T., "Image Privacy Using Reversible Data Hiding and Encryption," Wiley, 2025. DOI: 10.1002/9781394305216.ch16.

	3) Radhika, K., Mohammed, S., Tadepalli, S. K., and Puvulla, K., "Food Supply Chain Management by Leveraging AI, IoT, and Blockchain Technologies," in *The Future of Agriculture: IoT, AI and Blockchain Technology for Sustainable Farming*, Bentham Science Publishers, 2024. DOI: 10.2174/9789815274349124010010.
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Training (**Attended and/or Organized**).	**Organized or coordinated** 1. Coordinated the FDP on Advanced AI Technologies, sponsored by AICTE IDEA Lab, CBIT, in October 2025. 2. Coordinated the National Faculty Training Workshop on Reviving Indian Knowledge Systems for Sustainable Development in April 2025. 3. Served as Co-Coordinator for the one-week FDP on National Education Policy (NEP 2020) in March 2024. 4. Coordinated the one-week FDP on Deep Learning Solutions in Healthcare, Department of IT, CBIT, in January 2024. 5. Coordinated the one-week FDP on Recent Trends in Data Science for Engineering, Department of IT, CBIT, in June 2023. 6. Coordinated the one-day Competitive Programming Workshop, Department of AI&DS, CBIT, on 3 August 2026. 7. Coordinated CYBER FEST 2026, a 36-hour hackathon and capture-the-flag challenge, on 6–7 February 2026. 8. Coordinated a one-week online workshop on DevOps Tools in October 2025. 9. Coordinated ForensiQ: Cyber Investigation Workshop and Placement Talk on 15–16 October 2025. 10. Coordinated a two-day Competitive Coding Workshop in collaboration with Smart Interviews on 22–23 September 2025. 11. Coordinated an expert talk on Roadmap for Cyber Security Towards Better Careers in April 2025. 12. Coordinated a workshop on Cloud Computing Tools and Technologies for Placements in May 2025. 13. Coordinated a hands-on workshop on Cracking Complex Problems in Data Structures for Placements in October 2024. 14. Coordinated the IEEE-funded In-DEX two-day technical event in August 2024. 15. Coordinated a two-day Ethical Hacking Workshop in June 2024. **Attended or completed** 1. Completed the AI Pragyan FDP on Generative AI, organized by SmartBridge in collaboration with IBM SkillsBuild, from 25 April to 25 May 2026. 2. Completed the NPTEL FDP on Cloud Computing from January to April 2026. 3. Completed the FDP on Code Generation and Optimization Using IBM Granite on 26 May 2026. 4. Participated in the two-week FDP on The Art and Science of Successful Proposal Writing, organized by

	CVR College of Engineering, from 27 October to 6 November 2025. 5. Completed the 40-hour FDP on IoT and Blockchain: Securing the Next Generation of Connected Devices from 10 to 21 March 2025. 6. Participated in the two-week Summer School on Generative AI and Large Language Models, organized by CBIT and IEEE Hyderabad Section, from 19 to 30 May 2025. 7. Participated in an FDP on Microsoft Azure Data Fundamentals. 8. Participated in a two-day In-House Faculty Training Programme at CBIT. 9. Participated in a two-week ISTE STTP on Introduction to Design of Algorithms. 10. Participated in a one-week FDP on Data Science and ChatGPT. 11. Participated in a one-week FDP on Multidisciplinary Research Trends in AI and Data Science. 12. Participated in a one-week FDP on Quality Education through OBE. 13. Participated in a one-week FDP on Data Science in Engineering. 14. Participated in a one-week FDP on High Performance Computing in Engineering Applications.
Details of Journal Publications/ Conferences **(National and International)**	**Journal publications** 1. Sidhi Anish Kumar, Suresh Pabboju, and P. Kiranmaie, "ElderMate: A Privacy-Preserving Offline Edge-AI Assistive Healthcare Monitoring System for Elderly Aging-in-Place on Raspberry Pi 5," *International Journal of Drug Delivery Technology* — accepted for publication on 4 May 2026. 2. "A Structured Framework for Autonomous Failure Prediction and Self-Healing in Microservices," *International Journal of Engineering Research & Technology*, Vol. 15, Issue 04, April 2026. 3. "Finding the Optimal Path Using Anytime Repairing A* Algorithm in Dynamic Environment," *International Journal for Modern Trends in Science and Technology*, Vol. 9, Issue 04, pp. 58–63, 2023. 4. "Information Security Using Human Visual System Model in Steganography Applications," *International Journal for Research in Computer Engineering*, 2015. **Conference publications** 1. Yasmin, S., and Kiranmaie, P., "CARS-M: A Cluster-Aware Risk Scoring Framework for Edge-Enabled Predictive Maintenance," *2026 IEEE 15th International Conference on Communication Systems and Network Technologies*, pp. 18–23, 2026. 2. Kiranmaie, P., Gopalachari, M. V., Bazar, D., and Viraj, M., "Analyzing the Cyber Threat Landscape: A Comparative and Ethical Study of Modern Phishing

Toolkits," *ICT: Applications and Social Interfaces—Proceedings of ICTCS 2025*, Vol. 4, 2026.

3. Puvulla, Kiranmaie, and co-authors, "A Comparative Analysis of Smart Pill Dispensers: Innovations and Challenges," *ICTCS 2025*; Springer conference proceedings, published online 1 June 2026.
4. Kiranmaie, P., Chada, A. R., and Kavati, I., "Wrong-Way Driving Detection with YOLOv9 and Convolutional Neural Networks," *Procedia Computer Science*, Vol. 258, pp. 2060–2069, 2025.
5. Praneeth, E., and co-authors, "Mixed Federated Learning Approach for Multiclass Image Segmentation," *RASEFT 2024*, IEEE conference publication.
6. Abhinav, R., and co-authors, "Explainable AI for Architectural Design Generation with Few-Shot Learning," *AI2E 2025*, IEEE conference publication.

Conference papers presented

1. "A Hybrid Digger–Guider and Sentiment-Aware Framework for Stock Market Prediction," presented at ICCCT 2026, Goa.
2. "Rash Driving Detection in Intelligent Traffic Systems Using Meta-Learning Approaches," presented at ICCCT 2026, Goa.
3. "Real-Time License Plate Recognition in Low-Light Traffic Surveillance Using Qwen2-VL with Meta-Learning Adaptation," presented at ICETIST 2026.
4. "Two-Wheeler Violation Detection and License Plate Recognition in Low-Light Conditions Using YOLOv11, EasyOCR, and Gemini API," presented at ICETIST 2026.
5. "Hero Image Selection Using Deep Learning and Visual Feature Integration," presented at ICETIST 2026.
6. "Intelligent Adaptive Traffic Signal Control with Multi-Level Pedestrian Crossing Management," presented at ICETIST 2026.
7. "FITMI: An AI-Based Virtual Try-On System Using MediaPipe Pose and SMPL 3D Digital Human Modeling," presented at ICETIST 2026.
8. "A Power-Aware 64-Bit Hybrid Multiplier Using Vedic Arithmetic and Wallace Tree for High-Performance Filter Applications," presented at ICESC 2026.
9. "Decompose, Match, Verify: An Explainable Hybrid Pipeline for Automated Short-Answer Grading with Per-Idea Coverage and NLI-Based Contradiction Filtering," presented at ICDSA 2026.
10. "An Intelligent System for Automated Summarization, Question Generation, and Mind Map Construction from Educational Text," presented at ICDSA 2026.