KRISTU JAYANTI
(DEEMED TO BE UNIVERSITY)
Under Section 3 of UGC Act 1956
A CMI INSTITUTION | BENGALURU | INDIA

Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: Computer Science/Computer Applications/Data Science

Dr. Vinothina V
Associate Professor
Department of Computer Science (PG)
School of Computational & Physical Sciences

Areas of Specialisation:
Distributed and Cloud Computing, Artificial Intelligence, Computer Vision, Edge and Fog Computing, Optimization Techniques

Dr. Vinothina V. is an Associate Professor in the Department of Computer Science (PG) at Kristu Jayanti (Deemed-to-be) University, Bengaluru. She has qualified the National Eligibility Test (NET) and holds a Ph.D. in Computer Science, with her doctoral research focusing on developing nature-inspired optimization algorithms for workflow scheduling and resource allocation in cloud computing. Her work significantly enhanced the execution efficiency and reliability of large-scale distributed applications. She also gained international exposure as a Visiting Researcher at Sophia University, Japan, where she collaborated on research projects for three months. Her research interests include cloud computing, computer vision, and artificial intelligence. She has applied deep learning and transformer-based approaches to video analytics, focusing on anomaly detection using spatiotemporal features, crowd density estimation, behavior analysis, and multimodal student feedback analytics through natural language processing and sentiment analysis. She has published extensively in reputed Scopus-indexed journals and actively contributes to the academic community as a reviewer, invited speaker, and resource person at national and international forums. She has also served as Conference Convener for international conferences hosted by her department. As Counselor of the IEEE Student Branch, she mentors students, fosters a strong research culture, and promotes technical and professional development initiatives.

Selected Publications:

1. **Vinothina V**., Jasmine Beulah G., and Rajagopal, S. (2021). Review on Mapping of Tasks to Resources in Cloud Computing. International Journal of Cloud Applications and Computing, 12(1), 1–17. https://doi.org/10.4018/ijcac.2022010106

2. Prakash, V. S., **Vinothina, V**., Kalaiselvi, K., and Velusamy, K. (2022). An improved bacterial colony optimization using opposition-based learning for data clustering. Cluster Computing, 25(6), 4009–4025. https://doi.org/10.1007/s10586-022-03633-z

3. **Veerachamy, V**., George, A., and Beulah, J. (2024). Intelligent Analysis of Student Feedback in Post-course Assessment Using a Multiclass Classification Model. Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-64776-5_36