



## Centre for Research & Development

### Research Supervisor (Guide) Profiles

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



#### **Dr. Gayathri R**

Associate Professor  
Department of Computer Science (PG)  
School of Computational & Physical Sciences

#### **Areas of Specialisation:**

Machine Learning, Deep Learning, Artificial Intelligence, the Internet of Things (IoT), and Blockchain technologies

Dr. R. Gayathri is an Associate Professor in the Department of Computer Science (PG) at Kristu Jayanti (Deemed to be University), Bengaluru, with over 17 years of academic experience across various esteemed institutions. Her research interests include Machine Learning, Deep Learning, Artificial Intelligence, the Internet of Things (IoT), and Blockchain technologies. Her doctoral research focused on a novel approach using dynamic preprocessing with hybrid algorithms for a record deduplication system. She has published over 37 research papers in leading journals, with an h-index of 2 and an i10-index of 1. In addition, she has contributed two book chapters and filed a patent. Her academic excellence has been recognized through honors such as the Best Research Scholar Award and the Best Women Faculty Award. She actively engages in knowledge dissemination by serving as a resource person and delivering expert lectures and talks that foster academic growth and innovation in her areas of expertise.

### **Selected Publications:**

1. **Gayathri, R.** (2021). An Enhanced Resource Allocation Algorithm to Allocate Hospital Beds during the COVID19 Pandemic. IEEE. <https://doi.org/10.1109/icipca51532.2021.9544938>
2. K. Kavitha., **R, Gayathri...**, T. Velumani. (2024). A Unified Approach for Network Intrusion Detection using Ensemble Machine Learning Classifier using Support Vector Machine and Naive Bayes. International Journal of Intelligent Systems and Applications in Engineering, 12(4), 824–830. <https://ijisae.org/index.php/IJISAE/article/view/6303>
3. **R Gayathri**, N. Kanchana, M. Karthi, M. Kannan, V. Bakyalakshmi. (2025). AI for Predictive Health Monitoring: Applications in ICU Patient Outcome Prediction. The Bioscan, 20(1), 593–597. <https://doi.org/10.63001/tbs.2025.v20.i01.pp593-597>