



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. Kalaiselvi K

Associate Professor
Department of Computer Science
School of Computational & Physical Sciences

Areas of Specialisation:

Artificial Intelligence, Machine Learning & NLP, Networks,
Cyber Security & Cryptography, Internet of Things

Dr. K. Kalaiselvi is an Associate Professor and Programme Coordinator in the Department of Computer Science at Kristu Jayanti (Deemed-to-be University), Bengaluru. Her research interests include Artificial Intelligence, Machine Learning, Business Intelligence, Cyber Security, and the Internet of Things (IoT). She has published more than 40 research papers in SCI, Scopus, and Web of Science-indexed journals, contributing to areas such as optimization algorithms, data security, healthcare analytics, educational technology, and smart systems. She frequently presents her research at IEEE and Springer conferences and serves as a reviewer for reputed international journals. She has led two institutionally funded projects as Principal Investigator, focusing on child development through learning applications and AI-driven counselling systems. As an innovator, she holds five Indian patents in domains including IoT-based women's safety, blockchain-enabled EV charging, behavioural analytics, plant trait enhancement, and healthcare devices. Her academic contributions also include four authored books on Data Communication, Data Mining, Data Structures in C, and Blockchain Fundamentals. She is an educator ambassador for professional associations such as Qlik Academy, Oracle Academy, Celonis Academy, and AWS Academy, actively contributing to knowledge sharing and capacity building. In 2025, she was appointed as an STEC Faculty member at Sophia University, Tokyo, where she leads an international collaborative project in Artificial Intelligence and Machine Learning.

Selected Publications:

1. Mangaiyarkarasi, T., Catherine, S., and **Kalaiselvi, K.** (2025). Adapting to Generation AI: Navigating the Future of Business and Technology. Emerald Publishing Limited. <https://doi.org/10.1108/978-1-83608-432-720251002>
2. Kh, A., **Kalaiselvi, K.**, and Thomas, Lijo. P. (2024). Investigating the Impact of Feedback Loop Training on Machine Learning Model's Performance in Time Series Data. IEEE. <https://doi.org/10.1109/icctac61556.2024.10581164>
3. **Kalaiselvi, K.**, Kh, A., and VR, S. (2024). Assessing the Impact of COVID-19 on Inflation Dynamics in India: A Machine Learning Approach. IEEE. <https://doi.org/10.1109/icesc60852.2024.10690053>