



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Statistics**



Dr. Vinoth B

Assistant Professor
Department of Physical Sciences
School of Computational & Physical Sciences

Areas of Specialisation:

Applied Statistics: Regression Analysis, Time Series Analysis,
Artificial Neural Network, Machine Learning, Multivariate Analysis

Dr. B. Vinoth is an accomplished academician and researcher in Statistics, specializing in statistical modelling, machine learning, and data analytics. His doctoral research focused on applying advanced statistical techniques to analyse agricultural production trends across India, contributing to data-driven decision-making in the agricultural sector. He brings extensive teaching and research experience at both national and international levels, including academic exposure in Eritrea. His interdisciplinary research spans areas such as economic forecasting and public health analytics, integrating classical statistical methods with modern computational tools to address real-world challenges. He has actively contributed to academia by organizing national and international conferences in statistics and data analytics. He has also guided and collaborated on research projects across healthcare, social sciences, and emerging technological domains. His current research focuses on a socio-economic and educational study of the living conditions and societal status of transgender individuals in Bengaluru. In addition to his research contributions, he has authored books on Machine Learning and Artificial Intelligence, filed patents, and serves as a data analysis consultant across diverse fields, including medical and social sciences. He is committed to fostering interdisciplinary research and mentoring scholars in data-driven innovation.

Selected Publications:

- Balakrishnan, V.,** Prakash, V. S., & B. N., S. (2024). Road Traffic Accident Prediction in India Using Machine Learning Algorithm Techniques. In 2024 International Conference on Electronics, Computing, Communication and Control Technology (ICECCC) (pp. 1–5). IEEE. 2024 International Conference on Electronics, Computing, Communication and Control Technology (ICECCC). <https://doi.org/10.1109/iceccc61767.2024.10593917>
- Reddy Sagili, S., **Balakrishnan, V.,** S, O., V, Y., P, S. V., & N V, K. (2025). Early Determination of Autism Spectrum Disorder by an Improved Multi-Layer Perceptron with Adam Optimization Process. In 2025 International Conference on Sustainable Communication Networks and Application (ICSCN) (pp. 925–930). IEEE. 2025 International Conference on Sustainable Communication Networks and Application (ICSCN). <https://doi.org/10.1109/icscn67106.2025.11308202>
- Balakrishnan, V.,** Karnaboopathy, R., George, L., Yuvaraj, V., Vijayan, K., Mathew, R., & Prakash, V. S. (2025). Forecasting GDP and Unemployment Growth Rates in India: A Nonlinear Regression Growth Model Approach. In Studies in Systems, Decision and Control (pp. 963–974). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-96530-2_85