Name: Dr. R. BAGHIA LAXMI

Degree: B.Tech., M. Tech., Ph.D.,

Designation: Associate Professor

Experience: 3 years

Area of Specialization: Deep Learning, Artificial Intelligence

Contact (Email id): baghialaxmir@stjosephs.ac.in

Subjects Handled: Advanced Artificial Intelligence, Data Analytics, Big Data Management

Publications (Journals & Conferences):2 Scopus index journal, 4 IEEE conference (Scopus indexed), 2 International conference, 4 journals (UGC, Google Scholar), 5 Patents, 2 Book Chapters, 1 Book published

Scopus:

- "Ensemble Feature Extraction Model with Optimal Kernelized Clustering Algorithm for Identifying the Cancer from Cervical Histopathology Images", Journal of Theoretical and Applied Information Technology (JATIT) on 2022, 100(13), pp. 4866-4877

- "Improvised Model to detect the Cancer from Cervical Histopathology Images by Optimizing Feature selection and Employing Ensemble Classifier", Journal of Advances in Information Technology, 2023, vol.14(4):777-787

Conference:

- "Micro patch log- periodic antenna with dielectric resontor6 Ghz modem for vehicular ad hoc networks (VANET'S)", International Conference on system, computation, automation and networking, January 2025
- "Design a 6 Ghz modem for vehicular ad hoc networks (VANET'S)", International Conference on system, computation, automation and networking, January 2025
- "DAI-BO Iintegrated intelligent lens beamforming for dynamic 5G Network optimization", International Conference on system, computation, automation and networking, January 2025
- "Hybrid Deep learning model for integrating radiomic and radiogenomic data: predicting clinical outcomes in Hutchinson-gilford progeria systems, December 2024.

- "Deep Learning assisted Cervical Cancer Classification with Residual Skip Convolution Neural Network (Res_Skip_CNN)- based Nuclei segmentation on Histopathological Images", International Conference on Computer Power and Communications (ICCP 2022), December 2022

- "Histopathology Image Based Cervical Cancer Detection Using Deep Learning Architecture in Region Based Segmentation with Classification", International Virtual Conference on Artificial Intelligence, 5G Communication and Network Technologies (ICA5NT) on April 2022

JOURNALS:

- "Retrieval- Augmented AI Chatbot for real time news summarization and fact verification", International research journal on advanced engineering hub (ISSN NO: 2584-2137), 2025
- "Survey on Intelligent Freezer", Asian Journal of Multidisciplinary Research (AJMR) on 2017
- "UNL Enconversion for Tamil Sentence", International Journal for Research in Applied Science & Engineering Technology (IJRASET) on August 2019
- "Precision strain methodology for material characterization", An international multidisciplinary peer- reviewed E- jouranl(ISSN 2454-8596)

Patents Published: 5

- "Cloud-based edge computing for real-time data processing in IOT applications" (Application no. 202541064389A) dated 11/07/2025.
- A Deep Learning approach to IOT security: Detecting and preventing Cyber threats (Application no. 202541067123 A) dated 19/09/2025.
- "Machine Learning- based approaches for curriculum design, pedagogy and leaning outcomes in education" (Application no. 202541033552 A) dated 02/05/2025.
- "Machine Learning – Enhanced Security and privacy in 6G wireless communication using fog and edge computing" (Application no. 202511008456) dated 14/02/2025.
- "IOT and ML for crop health monitoring and management system" (Application no. 202441070038) dated 20/9/2024.

Book Publication And Chapters:

- "Mastering natural processing with deep learning" book published by Lambert academic publishing, January 2025.
- "Book chapter- Post-Quantum Cryptography and Quantum machine learning for resilient encryption in AI- Driven cybersecurity", published in the book title "Artificial intelligence in Cybersecurity for risk assessment and transparent threat detection frameworks, 2025
- "Book chapter- Cyber deception strategies using AI- powered honeypots and generative models for attacker behavior profiling", published in the book title "Artificial intelligence in Cybersecurity for risk assessment and transparent threat detection frameworks, 2025

FDP Organized: nil

Funded Projects: nil

GoogleScholarID: https://scholar.google.com/scholar?cluster=7816417919353749003&hl=en&as_sdt=2005&sciodt=0,5

Scopus ID: https://www.scopus.com/authid/detail.uri?authorId=58175672700

https://www.scopus.com/authid/detail.uri?authorId=57809098100

WOS researcher ID: nil

Vidwan Id : https://vidwan.inflibnet.ac.in/profile/585490