Dr. S. Dinakaran

Associate Professor | Head of Department | Researcher in Data Mining & Machine Learning

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Profile Summary

Academic professional with **13+ years of teaching** and **research experience** specializing in **Data Mining, Machine Learning, and Cybersecurity**. Possesses strong teaching skills with expertise in delivering complex concepts in a simplified manner. Skilled in guiding students through academic projects, research activities, and practical applications. Leadership as **HOD**, conference organizer, and active NAAC contributor. Published extensively in **Scopus, Springer, IEEE, and indexed journals**; presented at **national and international conferences**. Author of a **Machine Learning textbook**.

Core Competencies

- Academic Leadership: HOD, NAAC Criteria Head, Conference Organizer
- Research & Publications: Data Mining, Machine Learning, AI, Cybersecurity
- Technical Skills: C, Java, Python, Web Programming | SQL, MS Access | Weka, R, RapidMiner, SAS
- Tools & Platforms: Cisco Packet Tracker, MS Office, Adobe Photoshop

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Education

- **Ph.D. (Computer Applications)** – Karunya University, 2018
- **M.C.A.** – Karunya University, 2008 (CGPA: 7.28)
- **B.Sc. (Computer Science)** – Bharathiar University, 2005

Book

- **Fundamentals and Principles of Machine Learning**, Blue Duck Publications, 2024. ISBN: 978-81-971565-4-0

Patient

- **Smart Devices for Predictive Risk Management in Investment,** Application Number: 457843-001, CBR Number: 209684, CBR Date: 06 May 2025

Journal Publications

- *Integration method of Hybrid feature selection with effective Adaboost Algorithm*, Multimedia Tools and Applications, Springer (Scopus Indexed – Under Review)

- *Safe Routing procedure for AD HOC Networks using datagram broadcast protocol*, International Journal of ICT (Scopus Indexed – Under Review)
- *A Data Mining-Based Smart Traffic Control Prediction Model In Smart Cities*, IJMER, Vol.14 Issue 1(1), Jan 2025
- *Utilise Cyber Security to safeguard rural areas and advance sustainable development*, Samyoga Journal, Vol.13 No.1, Sept 2023
- *Hybrid Feature Subset Selection for multi-level Datasets using Decision Tree Classifiers*, International Journal of Advanced Intelligence Paradigm, 2023 (Scopus Indexed)
- *Causal Study On Cyberbullying Menace On Psychological Health Working Women*, EXCEL International Journal, Nov 2021
- *Exploratory study on socio-legal factors of workplace cyberbullying*, Samyoga Journal, Aug 2021
- *Ensemble Method of Effective AdaBoost Algorithm for Decision Tree Classifiers*, International Journal on Artificial Intelligence Tools, 2017 (Thomson Reuters & Scopus Indexed)
- *Comparative analysis of filter-wrapper approach for random forest performance on multivariate data*, IEEE CPS, 2014 (Scopus Indexed)
- *Role of Attribute Selection in Classification Algorithms*, IJSER, June 2013

Conference Presentations

- *A Data Mining-Based Smart Traffic Control Prediction Model In Smart Cities*, International Conference at St. Francis College, Jan 2025
- *Optimizing Data Mining Research Leveraging WEKA's best fit tool*, ICI3 '2k24, April 2024
- *Review on Cyber Security to Protect the rural environment and Sustainable Development*, ICDSHER-23, SRM University, June 2023
- *Safe Routing procedure for AD HOC Networks*, ICEMTER-21, T. John College, Sept 2021
- *Evaluating the performance metrics of FSR, AODV and ZRP*, IACIT-2021, Reva University, May 2021
- *Comparative analysis of filter-wrapper approach for random forest performance on multivariate data*, Bharathiar University, March 2014
- Participated in IQAC National Conference (Kristu Jayanti College), 2018

Roles & Achievements

- **Reviewer** for *Discrete Dynamics in Nature and Society* (Hindawi)
- Reviewer for *Multiscale & Multidisciplinary Modeling* Journal
- **Session Chair & Moderator** at multiple conferences (NC-2023, ICEMTER-2021, HOTS-2022)

- **Coordinator** for National & International Conferences
- **IIC Coordinator & NAAC Criteria Head**, T. John College