



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Computer Science**



Dr. Divya K S

Assistant Professor
Department of Computer Science (UG)
School of Computational & Physical Sciences

Areas of Specialisation:

Cryptography, Network Security, IoT Security, and Cloud Computing,
Software Engineering and Secure Distributed Systems

Dr. Divya K. S. has made significant contributions to the field of Cryptography and Network Security, with a focus on developing secure communication frameworks for distributed and cloud-based systems. She completed her doctoral research at Visvesvaraya Technological University, Karnataka, where she worked on multiparty computation techniques to enhance non-repudiation and security in IoT environments. She holds an M.Tech in Computer Science from Manonmaniam Sundaranar University and a B.Tech in Computer Science and Engineering from the University of Kerala. Her research integrates advanced cryptographic methods with emerging technologies such as cloud computing and data-driven systems to address real-world security challenges. With over 18 years of teaching and research experience, she has guided numerous undergraduate and postgraduate projects in areas including cryptography, networking, and data science applications. She has actively contributed to academic and research development through funded initiatives such as KSCST projects and AICTE-ATAL Faculty Development Programs, where she has served as a coordinator. She is also a SWAYAM-NPTEL translator and a recipient of the Best Faculty Award. She holds patents in IoT-based systems and reinforcement learning applications and is actively involved as a reviewer and contributor to various academic activities. Her research interests include cryptography, AI-driven security models, cloud security, and distributed systems, with a focus on developing secure, scalable, and impactful solutions for contemporary technological challenges.

Selected Publications:

1. Thomas, M. M., Subramaniam, P. V., Nagarajan, K., & **Syamala, D. K. N.** (2025). Breast cancer analysis in R topognosis and prediction cancer diagnosis based on cell features. In AIP Conference Proceedings (Vol. 3175, p. 020074). AIP Publishing. 6th International Conference on Intelligent Computing: IConIC2K23. <https://doi.org/10.1063/5.0260540>
2. **K.S, D.**, T, M. M., Chakrabarti, S., V.S, P., & Chitra, K. (2024). Optimizing Lightweight Cryptographic Protocols for Secure Communication in Internet of Things(IoT) Devices. In 2024 5th International Conference on Communication, Computing & Industry 6.0 (C2I6) (pp. 1–5). IEEE. 2024 5th International Conference on Communication, Computing & Industry 6.0 (C2I6). <https://doi.org/10.1109/c2i663243.2024.10894917>
3. Prakash, V. S., Mary T, M., Shivakumar, B. N., Gnanadurai, J., **Divya, K. S.**, & J, V. (2024). Random Selection for Cloud-Based Load-Distributing in Varied P2P Networks using Enhanced Throttled Algorithm. In 2024 5th International Conference on Communication, Computing & Industry 6.0 (C2I6) (pp. 1–8). IEEE. 2024 5th International Conference on Communication, Computing & Industry 6.0 (C2I6). <https://doi.org/10.1109/c2i663243.2024.10895609>