Basic Details:

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Educational Details:

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  - **B.Sc. Mathematics** – 2016, Auxilium College, Katpadi, Vellore.
  - **M.Sc. Mathematics** – 2018, Auxilium College, Katpadi, Vellore.
  - **M.Phil. Mathematics** – 2019, Auxilium College, Katpadi, Vellore.
  - **Ph.D. Mathematics** – 2024.

Research Interests:

- Artificial Neural Network
- Machine Learning
- Deep Learning
- Imaged Classification

- Convolutional Neural Network

Publications:

- **M Lakshmi, Raja Das., (2021).** "Asymptotic Stability of Neural Network System with Stochastic Perturbations". Proceedings of International Conference on Innovations in Software Architecture and Computational Systems: ISACS 2021. (Conference Proceedings)

- **Lakshmi, M. and Das, R., (2023).** "Performance evaluation of CNN-based crack detection for electrical discharge machined steel surfaces". Proceedings of the Institution of Mechanical Engineers. Part E: Journal of Process Mechanical Engineering, p.09544089221146464. (SCIE IF: 1.822). Sage. (Journal)

- **Lakshmi, M. and Das, R., (2023).** "Classification of Monkeypox Images Using LIME-Enabled investigation of Deep Convolutional Neural Network". Diagnostics, 13(9), p.1639. (SCIE IF: 3.992). MDPI.
  (Journal).

- **M Lakshmi, Raja Das., (2021).** "A New COVID-19 classification approach based on Bayesian optimization SVM kernel using Chest X-ray datasets". (Accepted) (Evolving Systems, IF: 3.2), Springer. (Journal)

- **Lakshmi M, Das, R, Balakrishnama Manohar (2023).** "Deep Convolutional Neural Network for classifying COVID-19 and Pneumonia using Chest X-ray images, Explainable Artificial Intelligence in Healthcare Systems" (Accepted) (Scopus). Nova science publishers.
  (Book Chapter)

Academic Experience:

- Vellore Institute of Technology, Vellore (01-04-2020 to 16-05-2024)

- Sree Abiraami Arts and Science College for Women", Vellore (10-06-2019 to 05-09-2020)