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Dr. Preethi D is working as Assistant Professor in the Department of CSE at SRMIST, Ramapuram campus. She holds a Ph.D. degree in Information Technology and Engineering in the year 2022 from Vellore Institute of Technology, Vellore, India. Her principal research, knowledge & Expertise in technology such as Network Security, Deep Learning, Machine Learning and Soft computing. She holds a life time membership in ISTE (*Indian Society for Technical Education*) & IAENG. She also has published research articles in International peer reviewed journals, Conferences and book chapters.

Area of Research:

Network Security, Machine Learning, Deep Learning, Data Science

Selected Publications:

1. Devan, P., & Khare, N. (2020). An efficient XGBoost–DNN-based classification model for network intrusion detection system. *Neural Computing and Applications*, 32, 12499-12514.
2. Preethi, D., & Khare, N. (2020). EFS-LSTM (ensemble-based feature selection with LSTM) classifier for intrusion detection system. *International Journal of e-Collaboration (IJeC)*, 16(4), 72-86.
3. Preethi, D., Khare, N. Sparse auto encoder driven support vector regression based deep learning model for predicting network intrusions. *Peer-to-Peer Netw. Appl.* **14**, 2419–2429 (2021). <https://doi.org/10.1007/s12083-020-00986-3>.
4. Preethi, D., & Khare, N. (2021). An intelligent network intrusion detection system using Particle Swarm Optimization (PSO) and Deep Network Networks (DNN). *International Journal of Swarm Intelligence Research (IJSIR)*, 12(2), 57-73.

5. Khare, N., Devan, P., Chowdhary, C. L., Bhattacharya, S., Singh, G., Singh, S., & Yoon, B. (2020). Smo-dnn: Spider monkey optimization and deep neural network hybrid classifier model for intrusion detection. *Electronics*, 9(4), 692.

Patents:

1. **Application Number:** 202241060276 A – **Patent Published**

Publication Date: 04 November 2022

Title: Design IOT –based remote intelligent healthcare system for personal emergency response using machine learning.

2. **Design Number:** 6297329 – **Patent Granted**

Grant Date: 25 July 2023

Title: Device for production of cancer vaccines

3. **Design Number:** 6302139 – **Patent Granted**

Grant Date: 15 August 2023

Title: Sensor based automatic robotic waste bin

Professional Bodies:

1. International Association of Engineers (IAENG) (Member No:145960), Hongkong, HK.
2. The Indian Society for Technical Education(ISTE) (Member ID: LM 135516)

Google Scholar:

<https://scholar.google.com/citations?user=38iO7egAAAAJ&hl=en&oi=ao>

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