



Dr. Inam Ullah Khan

I am a senior researcher in machine learning, and decentralized systems. I have presented privacy-preserving technologies for machine learning/deep learning on various data types (i.e., relational data, textual data). The techniques require me to have strong knowledge of state-of-the-art machine learning/deep learning models to analyze their vulnerabilities and protect them.



EXPERIENCE

- 2024 – Continued

PostDoc Research Fellow at SMU’s Department of Civil and Environmental Engineering, Southern Methodist University, USA
- 2023 – Continued

PostDoc Research Fellow at School of Computing and Communications, Lancaster University, UK
- 2023 – 2024

Postdoctoral Research Fellow AI and Cyber Security at Edge Hill University, UK
- 2022 – Continued

Assistant Professor at COMSATS University Islamabad, Islamabad, Pakistan
- 2015 – 2022

Lecturer at COMSATS University Islamabad, Lahore, Pakistan.
- 2013 – 2014

Lecturer at Federal Urdu University Islamabad, Pakistan.

Qualifications

- 2022

PhD in Electrical Engineering, Lancaster University, UK
- 2013

RESEARCH INTERESTS

- **Privacy:** Differential Privacy k-Anonymity
- **Artificial Intelligence:** Federated Learning Machine Learning Deep Learning Image Classification
- **Domain:** Smart Grids IoT

SKILLS

- **Programming:** Python Matlab
- **Machine Learning:** PyTorch Tensorflow MXNet Scikit-Learn Numpy Pandas Matplotlib
- **Tools:** Docker Git Linux

PROJECTS

2022 – Developing

Optimal demand-supply energy management in smart grids

#Python

Everything goes down if you do not have power: the financial sector, refineries and water. The grid underlies the rest of the country's critical infrastructure. This thesis focuses on four...



RECENT PUBLICATIONS

[[All Publications](#)]

2012

Privacy-preserving Decentralized Learning of Knowledge Graph Embeddings

Hoang, Anh-Tu, Lekssays, Ahmed, Carminati, Barbara, and Ferrari, Elena

In Proceedings of the Workshops of the EDBT/ICDT 2023 Joint Conference, Ioannina, Greece, March, 28, 2023, vol. 3379, 2023

Time-Aware Anonymization of Knowledge Graphs (Accepted)

Hoang, Anh-Tu, Carminati, Barbara, and Ferrari, Elena

In the ACM Transactions on Privacy and Security (TOPS), vol., pp., 2022

Privacy-Preserving Sequential Publishing of Knowledge Graphs

Hoang, Anh-Tu, Carminati, Barbara, and Ferrari, Elena

In 2021 IEEE 37th International Conference on Data Engineering (ICDE), vol. , pp. 2021-2026, 2021