Muhammad Almas Khan

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Summary

Muhammad Almas Khan, an MPhil graduate in Computer Science from **Quaid I Azam University (QAU)**, Islamabad, Pakistan is logical, technical, inquisitive, and problem solver, Recently conferred with the best paper winning award at an international conference. Currently working as lecturer in **FAST National University of Computer and Emmerging Sciences**. Having research interest in (but not limited to) Internet of Things (IoT) security and enough knowledge of Artificial Intelligence and other advanced courses in the same area, the research topic is open in computer science on any topic. for more click here.

Education

- **Quaid I Azam University**, Islamabad, Pakistan

M.phill. Department of Computer science, 3.4/4.0 sep-2019 to 2021

Dissertation Title: *"TID-MQTT: Telemtery data based Intrusion Detection for MQTT enabled smart IoT systems via Machine Learning"*

Supervisor: *Dr.Muazzam Ali Khan Khattak*

Co-Supervisor *Dr. Jawad Ahmad*

- **University of Peshawar**, Pakistan

M.Sc, Department of Computer science, Marks obtained 80%, March 2017

Project: *"3D action Game development using Lightweight Java Game Library"*

Supervisor: *Dr Naveed Ahmad*

- **Abdul Wali Khan University**, Mardan , Pakistan

Bachelor of Science 72% June 2014 **:** Computer science and Pure Applied Mathematics

Experience

Lecturer Jan 2023 - present

After completing his MPhil, he joined **FAST National University of Computer and Emmerging Sciences** in January 2023 as lecturer. He taught new courses there i,e MT2002:Statistical Modeling and CS2002:Numerical Computing , while also evaluating student projects and assisting with administrative tasks. The list of courses taught at FAST-NUCES given as below

- ***Teaching Experience***
  1. **MT2002: Statistical Modeling**: Building Models in Pymc
  2. **CS2008: Numerical Computing**: Numpy, Scipy

Research Assistant Jan 2020 - Dec 2022

Prior to lecturing, Muhammad Almas served as a Research Assistant at Quaid i Azam University Islamabad, contributing to various projects in computer science research. He collaborated with faculty members on cutting-edge research initiatives, conducted literature reviews, and assisted in data analysis tasks

- ***Academic Reviewer***

1. **Peerj** IF: 3.061
2. **CMC** IF: 3.001
3. **MDPI-sensor** IF: 3.801

Publications

Khan, Muhammad Almas, Muazzam A Khan, et al. (2021). "A deep learning-based intrusion detection system for MQTT enabled IoT". In: *Sensors* 21.21, p. 7016.

Khan, Muhammad Almas, Muazzam A Khan Khattk, et al. (2022). "Voting classifier-based intrusion detection for iot networks". In: *Advances on Smart and Soft Computing: Proceedings of ICACIn 2021*. Springer, pp. 313–328.

Naz, Naila, Muazzam A Khan, Suliman A Alsuhibany, et al. (2022). "Ensemble learning-based IDS for sensors telemetry data in IoT networks". In: *Mathematical Biosciences and Engineering* 19.10.

Naz, Naila, Muazzam A Khan, Muhammad Asad Khan, et al. (2022). "A Comparison of Ensemble Learning for Intrusion Detection in Telemetry Data". In: *The International Conference of Advanced Computing and Informatics*. Springer, pp. 451–462.

Bakhsh, Shahid Allah et al. (2023). "Enhancing IoT network security through deep learning-powered Intrusion Detection System". In: *Internet of Things* 24, p. 100936.

Awards & Certifications

Best Paper Award

Explored certification courses in machine learning algorithms before delving into research during my master of philosophy in Computer Sciences. I published the above papers from my thesis work titled "IDMQTT: Telemetry data-based Intrusion Detection for MQTT enabled smart IoT systems via Machine Learning". One of these papers was recognized with a **Best Paper Award** at **Advances on Smart and Soft Computing** Proceedings of ICACIn 2021

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- Applied Machine Learning in Python Credential ID: **Clicke here**
- Machine Learning Specialization(4 Courses) ID:**Clicke here**
    1. Machine Learning Foundations: A Case Study Approach
    2. Machine Learning: Regression
    3. Machine Learning: Classification
    4. Machine Learning: Clustering & Retrieval
- Deep Learning Specialization(4 Courses) ID:**Clicke here**
    1. Neural Networks and Deep Learning
    2. Improving DNN: Hyperparameter tuning, Regularization and Optimization
    3. Convolutional Neural Networks
    4. Structuring Machine Learning Projects
    5. Sequence Models

Skills

Programming	Have the skill to code in Python, Java, Andriod, C/C++, web programming
Write up experience	Proficient in writing up experience using Overleaf to effectively present work.
Graphics	Skilled in using Adobe Premiere Pro and Photoshop for proficient editing of both photos and videos.
Presentation	Proficient in creating visually appealing presentations with Bemear on Microsoft PowerPoint or Google Slides