Maaz Ahmad
Computer Scientist

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📍 Rawalpindi, Pakistan

TOOLS

C++ Python Go

Linux NumPy

Pandas Keras

Matplotlib PyTorch

SQL

INTERESTS

Hiking Esports

Basketball

EDUCATION

Bachelor of Science (Computer Science)
FAST-National University of Computer and Emerging Sciences

08/2015 – 06/2019   *Islamabad, Pakistan*

Coursework
- Multi-Agent Systems
- Deep Learning for Perception
- Digital Image Processing
- Parallel and Distributed Computing
- Data Mining

F.Sc (Pre-Engineering)
Fazaia Inter College, Chakala

08/2013 – 07/2015   *Rawalpindi, Pakistan*

Matric (Computer Studies)
Roots High School

08/2011 – 06/2013   *Rawalpindi, Pakistan*

WORK EXPERIENCE

Research Assistant
Artificial Intelligence and Machine Learning Lab, FAST-NUCES

08/2018 – 06/2019   *Islamabad, Pakistan*

Achievements/Tasks
- Literature review on the relationship between energy consumption in computer systems and software design.
- Designed and conducted experiments to study the relationship between CPU energy consumption and C/C++ source code control flow graphs.

Contact: Dr. Mirza Omer Beg – omer.beg@nu.edu.pk

PROJECTS

Final Year Project : CEnergy (Python, Scikit-learn, GCC, Linux)
- A machine learning based energy profiling technique for C programs, which uses the control flow graph features of programs to estimate the energy consumption behavior of C programs.

Parallel and Distributed Computing : Distributed Search System (Go)
- Developed a distributed search system with an HDFS-like file system and multiple node fault tolerance.

Deep Learning for Perception : Face Detection and Recognition (Python, Keras)
- Implemented a sliding window face detector and FaceNet, for a face detection and recognition pipeline.

Digital Image Processing : Fingerprint Recognition System (Python, Scikit-image, Numpy)
- Implemented a fingerprint recognition system based on finger minutiae features.

Data Mining : Prediction System (NumPy, Pandas)
- Trained a machine learning model for estimating the prices of used cars.

Computer Networks : SMTP Application (C++)
- Developed an application simulating SMTP, capable of handling multiple servers and clients.

ACTIVITIES

Member FAST Basketball team (08/2017 – 10/2018)