

FAHAD UL HASSAN ASIF MATTOO

Machine Learning Engineer

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EXPERIENCE

Machine Learning Engineer

D-Cube Tech

August 2023 - Present Islamabad, Pakistan

- Large Language Models:** Utilized llama2 7b model for analysis, assessed diverse quantization methods, and facilitated deployment via FastAPI.

Research Assistant

Robot Design & Development Lab, NCRA, NUST

November 2022 - July 2023 Rawalpindi, Pakistan

- Machine Learning:** Human interaction Recognition, Human Activity Classification, and Solved a regression-based optimization problem for MEMS sensor using ML & DL approaches.
- Dataset Collection:** Collected a Data-set for human activity recognition from a drone at multiple angles.

Junior Data Scientist

PackageX

September 2021 - August 2022 Islamabad, Pakistan

- Deep Learning:** Trained, Labelled, Evaluated, and Deployed a BERT based layout model for Named Entity Recognition (NER).
- On-Device:** Research and Bench-marked on-device OCR models (Apple-Vision, Google-ML kit) on Apple devices.
- Data Analytics:** Applied Exploratory data & trends analysis on customer activity data to obtain useful insights.

ACADEMIC PROJECTS

Development of Robust Action Recognition Framework Using Pose Information

Masters Thesis

- Proposed a Deep learning model for pose classification.
- Proposed framework that can recognize multi-person individual activity recognition.
- Utilized Yolov7-Pose for pose estimation and SORT for tracking of individuals.
- Evaluated the framework on 16 different datasets and benchmarked the pose classification model on 3 three different datasets.
- Achieved SOTA results for pose classification.

PUBLICATIONS

Deep Learning Based Multiresponse Optimization Methodology for Dual-Axis MEMS Accelerometer

Journal - micromachines (MDPI)

4 April 2023

Deep Learning-based Feature Fusion for Action Recognition using skeleton Information

Conference - ICRAI (IEEE)

3-5 March 2023

CAREER OBJECTIVE

Experienced ML engineer and researcher with a strong foundation in computer vision, NLP, and on-device deployment. Seeking a challenging role to drive innovation and conduct impactful research for the organization's growth. With 2 years of experience, a background as a data scientist, and recent publications, I possess strong analytical skills and a passion for staying current with AI developments.

EDUCATION

M.Sc. Mechatronics Engineering

College of Electrical & Mechanical Engineering (CEME), NUST.

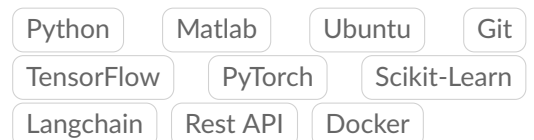
Sep 2019 - April 2023

B.Sc. Mechanical Engineering

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)

Aug 2014 - June 2018

SKILLS



CERTIFICATES

Neural Network and Deep Learning

Coursera 05, 2021

AI For Everyone

Coursera 01, 2021

Stanford Machine Learning

Coursera 11, 2020

HOBBIES

