

Muhammad Mohsin

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🌐 **LinkedIn:** <https://www.linkedin.com/in/mohsin-ee/>

🐙 **Github:** <https://github.com/Mohsin-424>

📁 **Portfolio:** <https://mohsin-424.github.io/io/>

📍 **Home:** Lahore (Pakistan)

ABOUT ME

Electrical Engineer from a **leading Asian research institution** with expertise in Deep Learning, Computer Vision, Signal Processing, and Mathematics. Experienced in AI-driven medical imaging research, focusing on feature extraction, segmentation, MRI, X-ray, and CT scan analysis, pattern recognition, object detection, and disease diagnosis using PyTorch and TensorFlow.

WORK EXPERIENCE

AI Research Engineer

SABAC-Arid Institute of Management Sciences | [12/2023 - Date]

- Cardiac Segmentation (UNet), Alzheimer's disease detection (ResNet on MRI images), Deep Face (Feature Extraction)

Associate Software Developer | Summer Intern

Rex Technologies | [08/2023 - 11/2023]

- Developed elegant Web Applications using **Angular/Flask/MySQL** for attractive user-interfaces.

IOT Research engineer

Elektronik2000 | [9/2021 - 10/2022]

- Gained hands on experience using ESP8266, and Arduino (Uno + Mega) for **IoT**

PUBLICATIONS

Advancing Liver Disease Diagnosis: A Benchmark Predictive Model Using Machine Learning on Comprehensive Clinical Data

Applied Nanoscience Springer Nature

Enhancing IoT Intrusion Detection Using ML, DNN and RNN: A Comparative Study

International Conference on Advancements in Engineering Science

EDUCATION AND TRAINING

BSC. Electrical Engineering | CGPA 3 / 4

University of the Punjab | 2020-2024

Thesis: Multimodal Orthopedic Health Assessment through Computer Vision , Instrumentation and Deep Learning

Link: <https://mohsin-424.github.io/io/>

PROJECTS

Ortho Synergy | Multimodal Orthopedic Health Assessment through Computer vision and Deep Learning

- Human Posture and Body angle estimation, Facial Pain Recognition, Plantar Pressure measurement

Cardiac Segmentation

- Built a **UNet** model for segmentation of LV, RV, and Myocardium from Cardiac MRI images.

Liver Tumor Prediction

- Developed predictive models (CatBoost, XGBoost, LightGBM) and got 92% accuracy

VOLUNTEERING

Society of Engineering Excellence | SEECON Volunteer

Artificial Intelligence in Medical Images | Paani

Amal Alumini | Amal Ambassador

The Citizens Foundation | Rahbar

CERTIFICATION

Deep Learning Fundamentals and GenAI with Diffusion Models | NVIDIA

AI in Heathcare Specialization | Stanford University

Programming the Internet of Things | University of California UCI, Irvine

Industrial Automation: National Vocational and Technical Training Commission | NAVTTC

LANGUAGE SKILLS

Mother tongue(s): Panjabi

Other language(s):

English

LISTENING C2 READING C2 WRITING C2
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C2

Urdu

LISTENING C2 READING C2 WRITING C2
SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Chinese

LISTENING A1 SPOKEN INTERACTION A1

RECOMMENDATIONS

Name: **Dr. Aminullah | Assistant Professor**

University of Central Punjab

Email: Amin.ullah@ucp.edu.pk

Name: **Engr Dr. Danish Arif | Assistant Professor**

Institute of Electrical, Electronics & Computer Engineering, University of the Punjab

Email: danish.ee@pu.edu.pk