

Muhammad Mohsin

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● EDUCATION AND TRAINING

2020 – 2024
BSC. ELECTRICAL ENGINEERING University of the Punjab

● WORK EXPERIENCE

06/2024 – 07/2024
STEM INSTRUCTOR STEAM GENIUS CLUB

Worked as a STEM instructor in collaboration with the Pakistan Air Force, teaching Lego Robotics, Arduino Robotics, Python Programming, and AI.

EMBEDDED SYSTEMS SOFTWARE DEVELOPER MUSLIM SCIENTIFIC CORPORATION

Programmed Raspberry Pi (4B) and PIC (18F4520) microcontrollers to build various projects

25/06/2024 – 25/09/2024
MACHINE LEARNING INTERN CODE ALPHA

Utilized Python libraries (OpenCV, TensorFlow, PyTorch) for real-time image processing and ML/DL projects in image classification and object detection

10/08/2023 – 10/11/2023
ASSOCIATE SOFTWARE DEVELOPER REX TECHNOLOGIES

Worked with Angular for front-end, MySQL for databases, and Flask (Django) for backend development, creating websites for electronics and e-commerce applications.

15/08/2021 – 10/10/2022
EMBEDDED SYSTEMS ELECTRONICS ENGINEER ELEKTRONIK2000

Programmed microcontrollers, including ESP8266/ESP32, Raspberry Pi, and Arduino, integrate various sensors for diverse applications.

18/12/2023 – 24/02/2024 Lahore, Pakistan
AMAL FELLOWSHIP AMAL ACADEMY

Amal Fellowship: Enhanced leadership, communication, and networking skills through focused career development training.

● PROJECTS

Multimodal Orthopedic Health assessment | Trigger point pain analysis through Deep Learning and Computer Vision

A system for comprehensive diagnostics by analyzing trigger point pain, gait, plantar pressure, body pose, and angles.

Link <https://github.com/Mohsin-424/AI-Projects>

Gait Analysis and Abnormality Detection System using Deep Learning and Computer Vision

A system that detects cerebral palsy (deformity) for medical diagnosis and rehabilitation using computer vision.

Green Wheelz offers a smart electric cycle rental system with IoT-powered geo-fencing for enhanced user safety and security

VOLUNTEERING

17/05/2024 – 19/05/2024
Artificial Intelligence in Medical Images

Conducted a 3-day workshop on AI in medical images (bioimage analysis).

Amal Ambassadorship

Fundraising for Akhuwat Foundation and the Edhi Foundation

Blood Donation

Noor Thalassemia Foundation

Volunteer STEM Skills Instructor

Arduino, Lego robotics, and block-based Python programming for poor and deserving students.

DIGITAL SKILLS

Deep Learning | Computer Vision | Embedded Systems (Internet of Things)) | LaTeX: used for documents preparation (e.g. reports and presentations). | Microsoft Office (Outlook, Excel, Word, PowerPoint) | Natural language Processing | SQL

CERTIFICATION

NVIDIA Certified Deep Learning and GenAI Professional

AI in Heathcare Specialization: Stanford University (Coursera)

Programming the Internet of Things (University of California UCI, Irvine) :(Coursera)

Industrial Automation: National Vocational and Technical Training Commission (NAVTTTC)

CONFERENCES AND SEMINARS

17/05/2024 – 19/05/2024 University of the Punjab, Pakistan
Artificial Intelligence in Medical Images

13/05/2022 Online
Advancements in Natural Language Processing and Chatbot Technologies

LANGUAGE SKILLS

Mother tongue(s): **PUNJABI**
Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | C2 | C2 | C2 | C2 | C2 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● RECOMMENDATIONS

Engr. Dr. Danish Arif

Assistant Professor at the Institute of Electrical, Electronics and Computer Engineering University of the Punjab, Pakistan. (Quaid-e-Azam Campus)

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Engr. Dr. Kamal Shahid

Assistant Professor at the Institute of Electrical, Electronics and Computer Engineering University of the Punjab, Pakistan. (Quaid-e-Azam Campus)

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