

Mohammad Farrukh Tahir

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EDUCATION

DNN Bootcamp Participant

GIK Institute

July 2024 – August 2024

Swabi, Pakistan

- Completed over 40 hours of personalized mentoring, receiving guidance and support throughout the bootcamp
- Engaged in 5 project-based learning activities, applying deep learning skills in real-world scenarios
- Collaborated with expert instructors from academia and industry on practical machine learning projects

Institute of Management Sciences

Bachelors in Computer Science — CGPA: 3.76

Peshawar, Pakistan

Aug. 2020 – Aug 2024

EXPERIENCE

Computer Engineer

GIK Institute of Engineering Sciences and Technology (GIKI)

Sep 2024 – Present

Topi, Pakistan

- Instructed over 100 undergraduate students in practical labs across subjects
- Led a team of 5 lab engineers to develop a comprehensive lab manual

Huawei Seeds For The Future Program

Participant

2023

Doha, Qatar

- Selected as one of 9 students from Pakistan to participate in Huawei's prestigious global program
- Gained hands-on experience with 5G technology, AI, cloud computing, and digital power

Full Stack MERN Intern

Bytewise Limited

June 2022 – June 2023

Remote

- Developed and maintained 3 full-stack web applications using the MERN stack

Core IT Team Developer

Google Developers Student Group

Oct 2022 – Nov 2023

IMS, Peshawar

- Led a team of 10 developers in organizing 5+ technical workshops
- Arranged and conducted workshops on emerging technologies, motivating over 100 students to attend

PROJECTS

Solar PV Generation and Load Prediction | Python, XGBoost, Kaggle

May 2024

- Developed a predictive model for solar PV generation and load forecasting as part of a Kaggle competition
- Utilized XGBoost for both generation and load prediction, optimizing hyperparameters to enhance model
- Performed data preprocessing and time series analysis to extract key trends and patterns from the dataset

EzCV2: OpenCV Function Explorer | Python, OpenCV, YOLO, Tkinter

- Developed a Python-based application that allows users to apply various OpenCV functions on images and videos
- Implemented features to load images and videos, apply both basic and advanced OpenCV filters
- Seamless integration of pre-trained YOLO models for object detection

Scaffolding Operations Management Platform (FYP) | MERN Stack, Redux

- Developed a SaaS platform tailored for the UK scaffolding industry, streamlining operations
- Designed an intuitive and easy-to-use UI specifically for non-technical users

Voice-Controlled Lights IoT Project | Wemos D1 Mini, React.js, Firebase, Google Speech-to-Text API

- Designed and implemented an IoT solution for controlling lights using voice commands, leveraging the Wemos D1 Mini, relay module, and Firebase for real-time communication
- Developed a React-based web interface for monitoring and controlling lights, with integrated Google Speech-to-Text API for seamless voice command recognition

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: React, Node.js, Express.js, MongoDB, TensorFlow, Keras, Pytorch, Material-UI

Developer Tools: Git, VS Code, Visual Studio, Jupyter, Google Collab, IntelliJ

Libraries: pandas, NumPy, Matplotlib, Tensorflow