

MUHAMMAD FAIZ RAZA

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EXPERIENCE

Advanced AI Bootcamp on DNN, GIKI

July – Aug. 2024

- Learned Theoretical + Practical understanding of ML, NNs, CV, and Transformers concepts through hands-on participation in weekly projects.

Data Science Fellow, Bytewise

June – Aug. 2024

- Gained *expertise* in advanced data science topics and practical skills through a fellowship, working on projects.

PROJECTS

GENAI:

General Chatbot and PDF Processor

Sep. 2024

- Developed a Gemini-powered chatbot and PDF processor for scalable, real-time client interactions.

RAG Based Chatbot

Sep. 2024

- Developed a RAG chatbot with Gemini and Chroma for precise, document-based answers.

Solar Production and Load Prediction

August 2024

- Forecast the Load and the Generation of PV on the real dataset provided by Sky Electric.

MLOpenLab

July 2024

- User-friendly tool, making it easy to learn ML for beginners, powered by Python library tkiner.

GuardianEye

Aug. 2024

- Real-time weapon detection powered by custom-trained YOLOv8, ensuring safety with every frame.

Advancing Age-Linked Analysis through AI (FYP)

- Advancing early intervention with an AI-driven speech analysis system to detect developmental challenges in children.

VOLUNTEER EXPERIENCE

Volunteering for NUST Volunteering Club, Lahore, 2024

- *Mobilizing support* to spread awareness and collect donations for those in need through the NVC.

Fundraising for Edhi & Akhuwat, Lahore, 2024

- Raised PKR 4 lakhs with a team of 50 students using innovative fundraising strategies.

Graphic Designer for PU IEEE SOCIETY, Lahore, 2021

- *Managed* the graphic design process for a society event, creating posters and standees.

EDUCATION

Bachelor of Science, Electrical Engineering

2020 - Present

UNIVERSITY OF THE PUNJAB

Lahore, Pakistan

SKILLS

- **Programming Languages:** Python, SQL, CSS, HTML.
- **Tools & Cloud Platforms:** Docker, AWS, Jupyter/Kaggle Notebook & Lab, VS Code, Git, Github, Colab, Pycharm, Dockerhub, Linux(Ubuntu).
- **Data Manipulation & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Plotly
- **Statistics & Machine Learning:** Principal Component Analysis (PCA), Scikit-Learn, StatsModels, XGBoost, Clustering, Classification, and Regression models.
- **Deep Learning:** Tensorflow, CNN | **Computer Vision:** Opencv, YOLO

COURSES & CERTIFICATIONS

- Advanced AI Bootcamp on DNN – GIKI – Sky Electric July – August 2024
- OCI 2024 Generative AI Certified Professional - Oracle August 2024
- Artificial Intelligence (Machine Learning & Deep Learning) – NAVTTC June – September, 2023
- IBM Data Science - Coursera – IBM March – August, 2023

Honors and Awards

- Won PKR 100k for **1st place** in DNN Bootcamp'24 at **GIKI** from **Ashar Aziz**, CEO of Sky Electric.
- Won 2nd place in Simulink Control Design Contest at SEECON'23, awarded by Director IEEECE, PU.