Muhammad Mudassir Azhar

Associate ML Engineer

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SUMMARY

ML Engineer with hands-on experience in ML model development, deployment, and LLM-based applications. Skilled in Python, TensorFlow, and data visualization with a strong portfolio of real-world projects

EDUCATION

Bachelor's in Artificial Intelligence (CGPA: 3.74/4.0) **2021 – 2025**
The Islamia University of Bahawalpur

EXPERIENCE

- **ML Engineer Intern | DeepEmbed | Bahawalpur, Pakistan (Aug 2023 – Dec 2024)**
  Gained hands-on experience with machine learning algorithms, model evaluation, tuning, and optimization.
- **Python Intern | Enigmatix (Pvt) Limited | Bahawalpur, Pakistan (May 2023 – Sep 2023)**
  Developed proficiency in Python programming, data structures, and OOP concepts.

SKILLS

- **Programming:** Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit learn, TensorFlow, Pytorch Basics).
- **Data Science:** Exploratory Data Analysis, Data Visualization, Cleaning, Statistical Analysis, Data Engineering.
- **Machine Learning:** Supervised and Unsupervised Learning, Neural Networks, NLP, LLM Applications, RAG.
- **Tools:** SQL, Git, Streamlit, Microsoft Azure (Basics), Kaggle, Google Colab.

SOFT SKILLS

- Problem Solving
- Critical Thinking
- Communication (Verbal & Written)
- Time Management

ACHIEVEMENTS

- Participated in **M(IT)^2 2025 Winter Contest**
- Participated in AI Bootcamp at DeepEmbed Lab.
- Delivered Python Workshop for ACM-IUB.
- Python Team Member, ACM - IUB Chapter 1.

PROJECTS

- **Virtual Try-On System – Final Year Project**:
  Engineered a cloud-based AI try-on system using pose estimation, segmentation, and image synthesis; integrated ReactJS frontend with Ngrok-powered inference for realistic virtual fitting.
- **Hematology Analyzer using Machine Learning:**
  Processed animal cell images using OpenCV and PCA and trained a machine learning model to classify normal vs. abnormal cells, enhancing diagnostic accuracy with Plotly/dash as frontend.
- **Cyanobacteria Classification:**
  Implemented an EfficientNet-B0 deep learning model to classify 13 cyanobacterium types from microscopy images; expanded the dataset by scraping 3 additional classes online, addressed class imbalance using weighted loss and augmentation, and improved accuracy by 15%.
- **AI Analyst – LLM-Powered Data Visualization Tool:**
  Developed an AI assistant that converts natural language queries into dynamic EDA visualizations using LLMs, generating Python code with Pandas and Seaborn for tasks like chart creation.
- **Pakistani Legal Chatbot:**
  Created an AI-powered legal assistant using LangChain, Groq LLM, FAISS, and HuggingFace embeddings to provide real-time, document-grounded answers to Pakistani law queries, with admin-controlled updates and RAG-based QA.
- **Server Log Management using Streamlit:**
  Built a real-time server log management system servers using Streamlit, regex, and Plotly to enable interactive monitoring and dynamic visualizations.
- **Countries' Poverty Analysis using Streamlit:**
  Developed a Streamlit dashboard for global poverty analysis, applying data cleaning and feature selection; included multi-select filters and visualizations to explore key economic indicators.

CERTIFICATIONS

- **Data Analysis with Python – IBM** **February 2025**
- **Certificate in Artificial Intelligence** **November 2024**
- **Data Visualization with Matplotlib & Seaborn (Enhanced) from Coursera** **November 2023**
- **Azure AI Fundamentals – Microsoft** **September 2023**
- **Artificial Intelligence (ML, DL, Communication) – NAVTTC** **September 2023**
- **Python for Machine Learning – IBM** **August 2023**