Muhammad Mudassir Azhar

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EDUCATION

The Islamia University of Bahawalpur   Bahawalpur, Pakistan
Bachelors in Artificial Intelligence (CGPA: 3.74/4.0)   2021-2025
- Relevant Courses: Programming Fundamentals, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Neural Networks.

EXPERIENCE

DeepEmbed   Bahawalpur, Pakistan
Machine Learning Intern   Aug 2023 – Dec 2024
- Gained hands-on experience with machine learning algorithms, statistics, and data analysis.

Enigmatix (Pvt) Limited   Bahawalpur, Pakistan
Python Intern   May 2023 – Sep 2023
- Developed proficiency in Python programming, data structures, and OOP concepts.

SKILLS

- **Programming:** Python
- **Data Science:** Data Analysis, Data Visualization (Matplotlib, Seaborn), Data Cleaning, Statistical Analysis
- **Machine Learning:** Supervised and Unsupervised Learning, Neural Networks, NLP, LLM Applications
- **Database Management:** SQL Basics

PROJECTS

- **Virtual Try-On System – Final Year Project**:
  - Built a cloud-based AI garment try-on system using pose estimation, segmentation, and image synthesis, enabling realistic virtual fitting with a ReactJS frontend and real-time inference via Ngrok.
- **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.
- **Cyanobacteria Classification:**
  - Developed an EfficientNet-B0 deep learning model to classify 13 cyanobacteria categories from microscopy images, addressing dataset imbalance with class weighting and augmentation to improve accuracy and model robustness.
- **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 with multi-select filters and dynamic visualizations to explore key economic indicators.

ACHIEVEMENTS

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

CERTIFICATIONS

- **Certificate in Artificial Intelligence**
- **Azure AI Fundamentals – Microsoft**
- **Artificial Intelligence (Machine Learning, Deep Learning, Communication) – NAVTTC**
- **Python for Machine Learning – IBM**
- **Data Analysis with Python – IBM**
- **Data Visualization with Matplotlib & Seaborn(Enhanced) from Coursera**