Muneeb Ur Rehman

AI Undergraduate | Experienced in Computer Vision | Specialization in Data Analysis & Blockchain

PROFILE

Aspiring Artificial Intelligence student at Bahria University Karachi Campus with hands-on experience building and deploying end-to-end AI applications across computer vision, natural language processing, retrieval-augmented generation (RAG), and large-scale data analytics. Experienced in developing production-oriented systems using modern machine learning frameworks, vector databases, FastAPI, Docker, and cloud deployment platforms. Skilled in designing data pipelines, fine-tuning and evaluating AI models, and integrating machine learning solutions into user-facing applications.

TECHNICAL SKILLS

Languages: Python, C++, Java, SQL, Bash
AI & ML: Unsupervised Learning, Deep Learning (CNNs), Computer Vision, Natural Language Processing (LLMs), Retrieval-Augmented Generation (RAG), Transfer Learning, Transformers, Parameter-Efficient Fine-Tuning (LoRA/QLoRA), Ensemble Learning
Libraries: PyTorch, TensorFlow, Scikit-Learn, Peft, Pandas, NumPy, LangChain, FastAPI, MLflow, DuckDB, Playwright, Seaborn
Tools & Platforms: Snakemake, Linux, Google AppSheet, Microsoft SQL Server, PowerBI, MongoDB Atlas, Apache Parquet, Git/GitHub, Docker, Kubernetes, Azure Web Service
Security Basics: Encryption/Decryption, Hashing, SQL Injection Prevention

CONTACT

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GitHub Profile:
https://github.com/BeUnMerreHuman

EDUCATION

Bachelor of Science in Artificial Intelligence
Bahria University, Karachi Campus

- Currently in 6th semester, CGPA: 3.36/4.00, Cumulative Grade A-

Intermediate – Pre-Engineering
Bahria College Karsaz (Karachi Board)

- Graduated with Grade A

CERTIFICATIONS

- **Advanced Data Analytics** – Google
- **DevOps to MLOps Bootcamp** – Packt
- **Model Context Protocol: Advanced Topics** – Anthropic
- **Blockchain Specialization** – State University of New York & University at Buffalo

PROJECTS

Zero-Shot Anime Character Detection & Recognition | *DEIMv2, DINO v3, Norfair*

- Developed a zero-shot anime character detection, recognition, and re-identification platform for images and videos, leveraging DEIMv2 for detection, DINOv3 embeddings for identity matching, Norfair for multi-object tracking, and vector database search for persistent character recognition without retraining.

Transformer Adaptation Benchmarking | *PyTorch, DINO v3, MLflow*

- Demonstrated that parameter-efficient LoRA adaptation outperforms full fine-tuning on a 300M-parameter ViT in low-data regimes, achieving higher accuracy and better generalization across 26 fine-grained classes

LLM Style Transfer | *Peft, Unsloth, Langchain*

- Fine-tuned an open-source LLM using QLoRA to emulate Gollum's speech patterns, vocabulary, and conversational style from *The Lord of the Rings* while maintaining coherent and context-aware responses.

University AI Chatbot | *MongoDB Atlas, LangChain, Sentence Transformers*

- Built and deployed a RAG-powered university chatbot with async FastAPI backend, MongoDB vector search, JWT authentication, and LLM inference to automate rulebook-based student queries.

Large-Scale Data Analysis | *DuckDB, Scikit-Learn, XGBoost*

- Processed 40M+ records to build a hybrid taxi fare prediction system that separates deterministic pricing logic from stochastic variables and uses a stacked ensemble model pipeline with minimal user input.

Automated Image Dataset Pipeline | *Snakemake, PyQt6, Apache Parquet*

- Engineered a Snakemake-driven ETL pipeline with interchangeable data ingestion modules (web scraping and AppSheet camera-based collection), maintaining a unified downstream architecture with PyQt6-based human-in-the-loop curation.

Offline Navigation System | *NetworkX, Graph Algorithms, FastAPI*

- Built and deployed an offline Karachi navigation engine using custom GeoJSON data, graph-based modeling, and Dijkstra's algorithm to compute optimal routes with turn-by-turn instructions without external APIs.

WORK EXPERIENCE

Arts Team Head *(BUKC ACCP Club)*

- Oversaw creative direction and ensured timely event delivery.

Private Tutor *(2022 – Present)*

- Tutored students from Grade 5 to 11 in Math, Science, and Computer, focusing on concept mastery and problem-solving skills.