Muhammad Ali Haris

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OBJECTIVE

I am a dedicated Computer Science student with a strong focus on Artificial Intelligence and Machine Learning. Backed by a solid foundation in programming and a sharp analytical mindset, I am eager to apply my skills in developing intelligent, data-driven solutions to real-world problems.

EDUCATION

FAST - National University of Computer and Emerging Sciences — Karachi, Pakistan
Bachelor of Science in Computer Science (CGPA: 3.44/4.0) — *August 2022 - June 2026(Expected)*

Highbrow College — Karachi, Pakistan
GCE - A Levels Pre-Engineering — *August 2020 - May 2022*

EXPERIENCE

Machine Learning and MLOps Developer Intern — June 2025 - Present
Syslab.ai — *Karachi, Pakistan*

- Improving the performance of an existing eye/gaze tracking system using advanced computer vision techniques (YOLOv8, CLAHE, bilateral filtering) to enhance robustness in cases involving eyeglasses and variable lighting.
- Contributing to end-to-end ML pipeline development, including automated training workflows, model versioning, monitoring, and CI/CD for streamlined deployment in a production environment.

Artificial Intelligence and Blockchain Research — March 2025 - Present
FAST - National University — *Karachi, Pakistan*

- Developing and researching on AI-driven document verification system using Blockchain Technology and NFTs to ensure authenticity and prevent identity theft
- Applying deep learning techniques and blockchain architecture to analyze and verify digital documents such as birth certificates using AI, ensuring security and accuracy in the process

Undergraduate Teaching Assistant — January 2022 - June 2022
FAST - National University — *Karachi, Pakistan*

- Evaluated quizzes, assignments, and semester projects for the course Digital Logic Design ensuring students grasp core concepts
- Guided students in designing and debugging digital circuits for practical and software assignments

Private Tutor O/A Levels and University Students — August 2022 - Present
Remote

- Tutoring O/A Levels students in Computer Science, English Language, Chemistry, Mathematics, Additional Mathematics etc. helping them achieve multiple As and A*s
- Teaching University-level courses including Object Oriented Programming, Design and Analysis of Algorithms, Operating Systems - helped students improve performance and achieve higher GPAs

Public Speaking Society - Advisor — August 2020 - May 2022
Highbrow College

- Oversaw and organized multiple inter-college and intra-college speaking events, competitions, and Model United Nations (MUNs). Led and mentored a team of junior members in debate, speech, and presentation skills.

PROJECTS

Hitwicket - Full Stack Project | *Python, Django, HTML/CSS, JavaScript, MySql* — Aug. 2024 - Dec. 2024

- Built a full-stack cricket management system using Django and MySQL enabling users to create teams, play matches, and manage transactions

AI-Based Plant Disease Detection | *Python, TensorFlow* — March 2025 - May 2025

- Developed an AI model to detect and classify plant diseases from leaf images, aiding in smart agriculture
- Used Convolutional Neural Networks trained on large datasets to attain test data accuracy upto 99.6 percent. TensorFlow and Keras libraries used

AI-Based Object Detection Using YOLOv8 | *Python, PyTorch*   March 2025
- Built a real-time object detection model using YOLOv8, training on custom-labeled datasets with high precision
- Achieved precise detection results, demonstrating the effectiveness of deep learning in computer vision tasks

Word Embeddings with Skip-gram and CBOW | *Python, PyTorch*   March 2025
- Implemented Skip-gram and CBOW models from scratch using PyTorch to learn word embeddings from a text corpus
- Trained models to capture semantic relationships between words, enabling context-aware vector representations

TECHNICAL AND SOFT SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS, Shell Scripting, Assembly Language, SQL, NoSQL
Frameworks: Django, PyTorch, TensorFlow, Keras, Scikit-Learn
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, LINUX, Google Colab
Libraries: Pandas, NumPy, Matplotlib, SeaBorn, OpenCV, YOLOv8, SpaCy, Gensim
Soft Skills: Leadership, Public Speaking, Event Management, Team Collaboration, Communication, Presentation, Mentoring, Time Management

CERTIFICATIONS

Exploratory Data Analysis (EDA) using SQL   March 2025 - April 2025
DataCamp

Associate Data Scientist in Python (Full Track)   December 2024 - April 2025
DataCamp

Transformer Models with PyTorch   February 2025 - March 2025
DataCamp

PostgreSQL   February 2025
DataCamp