

Muhammad Haider Ali Khadim

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EDUCATION

Software Engineering

2019 – 2024 | Karachi, Pakistan

National University of Computer and Emerging Sciences (FAST NUCES)

- Courses

Deep Learning for Perception, Data Science, Software Requirement Engineering, Software Design and Architecture, Software Quality Engineering, Design and Analysis of Algorithms, Probability and Statistics.

- Awards

Achieved A Grade in Software Quality Engineering, Software Requirements Engineering, Digital Transformation Tools and Techniques, Agile Software Project Management, Final Year Project.

Masters in AI for Health

2025 – Present | Stockholm

Stockholm University

- Courses

Machine Learning , Data Mining, Natural Language Processing, Reinforcement Learning

PROFESSIONAL EXPERIENCE

Team Lead Generative AI at Bank Alfalah

2025 – 2025

- Designed and deployed advanced AI chatbots, including **ITG Chatbot**, which provided multimodal responses (text + images) for enhanced user interaction.
- Led the development and oversight of multiple AI assistants such as **Alfa Assist** and a **Compliance Chatbot**, ensuring alignment with business requirements and regulatory standards.
- Coordinated cross-functional teams to deliver scalable, user-friendly generative AI solutions with measurable impact on customer support and compliance workflows.

Data Scientist at Bank Alfalah

2024 – 2025 | Karachi, Pakistan

- **AI-Powered HR Assistant:** Developed an interactive AI-driven HR bot using Streamlit, LangChain, Google Generative AI, and LLMs for intelligent document retrieval and user query resolution. Enabled seamless PDF storage, text vectorization, similarity-based information retrieval, and context-aware responses.
- **AI-Powered Retail Chatbot:** Designed a chatbot for retail banking to enhance customer support, enabling efficient query resolution and personalized banking services using the Retrieval-Augmented Generation approach and LLM.
- **Sentiment Analysis Dashboard:** Created a sentiment analysis tool using VADER to evaluate employee comments, delivering insights through an interactive dashboard with positive and negative sentiment breakdowns.
- **ATM Unusual Activity Detection System:** Developed a detection system using YOLOv5 to enhance ATM security across 110 live locations. The system detects and flags suspicious items such as guns, helmets, and bags in real-time when individuals enter the ATM premises. Designed for continuous monitoring through CCTV footage, the solution enables immediate alerts to security personnel, significantly reducing response time to potential threats.

AWARDS

Bank Alfalah

- Winning the *Dream Team of Data Science* award.

University Awards

- Nominated for the Pakistan Software House Association (PASHA) ICT Award (Tertiary Student Category).
- Nominated to give a presentation to the UK delegation and in ClimaTech Conference 2023 at NED University of Engineering & Technology.
- 1st Position in intra university badminton competition (2022) and in intra university cricket competition (2023).

School and College Awards

- Executive head of all the student societies in college (2018), Sports captain of the college (2017) and head of student representative council in school (2013).
- Gold medal in inter-cricket competition (2018), intra poetry competition (2018) and intra debate competition (2013).

PROJECTS

Final Year Project

- Implemented deep learning models to classify water sources, predicting the contamination of water and achieved an accuracy of **98% with MobileNet and Xception**.
- Evaluated water quality using machine learning and deep learning techniques and provided water treatment solutions using fine-tuned LLM.
- Implemented state-of-the-art object detection models, such as **YOLOv5** and **YOLOv8**, to identify waterborne trash, achieving an impressive **95% accuracy**.

Semester Projects

- Hospital Management System using HTML, CSS, PHP, MySQL, JQuery, Ajax.
- Traveling website using HTML, CSS, and Bootstrap.
- Implemented Neural Network for classification of binary images and achieved an accuracy of **95%**.
- Song Recommendation System, using Data Structures.
- Sports Inventory System, using Microsoft Power BI.

TECHNICAL SKILLS

Programming languages: Python, Java, SQL, and C/C++ **Libraries:** Keras, TensorFlow, Numpy, Matplotlib, Pandas and Plotly

Data processing platform: Roboflow **Cloud technologies:** Google Cloud Platform and Microsoft Dynamic 365 **Database:** MySQL and Postgresql **Version Control:** GitHub **Operating systems:** Windows and Linux **Development platforms:** Microsoft Visual Studio and Eclipse

LEADERSHIP EXPERIENCE

- Head of Standard Operating Procedure in Association for Computing Machinery. Ensured efficient and smooth society operations.
- Head of Transport in Developers Day. Facilitated coordination with members and guests to address transport-related issues.
- Executive Committee Member of Googles Developers Society Club. Oversaw diverse teams in public relations, marketing, and technical functions.
- Marketing Head of Think and Create Society. Spearheaded team development and executed society marketing initiatives.

RESEARCH PAPER

Leveraging Deep Learning to Classify Water Resources for Climate Change

Muhammad Faizan, Muhammad Haider Ali Khadim, Ashar, Muhammad Umair Mukati, Tariq Jameel, and Muhammad Farrukh Shahid, research paper accepted at the **9th International Congress on Information and Communication Technology**, London.

INTERESTS

Cricket | Badminton | Swimming

LANGUAGES

English—Advanced • **Urdu**—Advanced • **Saraiki**—Advanced • **Punjabi**—Basic • **Hindi**—Advanced