

Ahmad Xoraiz Waheed

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EDUCATION

Lahore University of Management Sciences

Aug 2021 - Present

Undergraduate: *BS in Computer Science – CGPA 3.243*

Relevant Courses: Object-Oriented Programming, Software Engineering, Data Science, Machine Learning

Lahore Grammar School

Cambridge IGCSE A-Level – 1A* 2A

Aug 2019 - May 2021

Cambridge GCSCE O-Level – 6A* 2A

Aug 2016 - May 2019

WORK EXPERIENCE

Turing

Subcontractor for Web Development

Jan 2025 - Present

- Developed intricate visualizations for **Google's** DeepMind project using **TypeScript** and open-source datasets, enhancing the training quality of Google's **Gemini** by providing over **120** high-quality charts based on rigorous data analysis.

TenX

Data Science Intern

May 2024 – Aug 2024

- Led research on Kolmogorov-Arnold Networks (KANs) and standard Convolutional Neural Networks (CNNs), comparing their performance and potential applications. Reported key findings including a **35%** reduction in parameters using KANs that **influenced team decisions** on future model implementations.

Freelancing

Content Writing and Machine Learning

Jul 2022 – Present

- Researched and wrote articles, and assisted multiple people in their Machine Learning projects successfully, contributing to more than **95 successful orders** completed with an average **rating of 5** worldwide.

PROJECTS

RAG-Based LLM Chatting Webapp

GithubRepo GPT

Dec 2024 – Present

- Designing a **Next.js-based** application that dynamically scrapes **GitHub** repositories, integrating an interactive chatbot using a **RAG-based LLM** to assist users in understanding and modifying code repositories.

Data Free Knowledge Distillation in Federated Learning

Lahore University of Management Sciences

Dec 2024

- Developed a privacy-preserving federated learning framework using **data-free knowledge distillation**, enabling model training without access to original data, improving aggregation and stability for non-IID datasets.

Optimizing Deep Learning Models with Quantization

Lahore University of Management Sciences

Oct 2024 – Nov 2024

- Implemented **Post-Training-Quantization** and **Quantization-Aware-Training** training techniques which reduced memory footprint by **96.2%** while getting an accuracy of **88%**, making AI deployment more efficient.

Road Surface Defect Detection with Vision Language Models

Lahore University of Management Sciences

Sept 2024 – Present

- Developing a 3D point cloud segmentation pipeline using Point CLIP on LiDAR road damage data to automate defect classification with deep learning and vision-language models, replacing traditional road surveys.

AI Based Movie Recommendation system

MovieSniper

May 2024 – Aug 2024

- Developed and deployed a **React-based** web app on **Vercel**, integrating the **OMDB API**, **web scraping**, and **LLMs** to generate a dataset of **500+** movies, leveraging **AI-powered** algorithms and a **Tailwind CSS-based UI** for personalized recommendations.

Sports Booking Mobile Application

Bookar

Jan 2024 – Apr 2024

- Led development of a **MERN stack React-Native** mobile app as **SCRUM master**, streamlining the sports field booking process and successfully securing onboarding agreements with **3 sports facilities**.

SKILLS

Research & Data Analysis | C++ | C | Python | JavaScript | MongoDB | React|

PyTorch| GitHub | Active Communication | Figma | Scikit-Learn