Kumail Haider

AI Engineer

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AI Engineer with production experience designing and deploying machine learning systems that drive measurable business impact. Delivered AI-driven automation improving customer re-engagement by 12-18% and increased model iteration efficiency by 30%+ through optimised data pipelines. Strong foundation in deep learning, predictive modelling, and backend integration, with hands-on experience building scalable, interpretable AI systems for real-world use cases.

Employment history

AI Engineer • Wellyx • London • Apr 2024 - Present
- Designed and deployed AI-driven features to automate targeted marketing campaigns, contributing to ~12–18% improvement in member re-engagement based on internal usage trends.
- Built predictive models to estimate user engagement and renewal probability using PyTorch and Scikit-learn, supporting weekly retention decisions across thousands of active members.
- Developed REST-based microservices to integrate ML outputs into production workflows, reducing manual intervention and accelerating deployment cycles.
- Automated data preprocessing and feature-engineering ETL pipelines in Python (Pandas), improving model training and experimentation speed by 30%+.
- Collaborated with product and engineering teams to translate model outputs into operational workflows and reporting.

Client Project Manager (Industry Mentor) • London South Bank University • London • Feb 2025 - Apr 2025
- Acted as industry client and mentor for a Software Engineering module, guiding student teams through sprint reviews, requirement clarification, and delivery validation.
- Improved delivery quality and reduced rework through structured feedback and clearer acceptance criteria.

Software Developer • Soft Steer Global Technology • Lahore • Aug 2023
- Developed and maintained backend features in C#, resolving bugs and improving API stability across client-facing applications.
- Collaborated with engineering teams to troubleshoot deployment issues and deliver reliable solutions under real-world constraints.

Education

MSc Applied Artificial Intelligence — Distinction • London South Bank University • London • Oct 2024 - Nov 2025

BSc Computer Science • University of South Asia • Lahore • Jan 2019 - Mar 2023

Courses

Machine Learning Specialization • DeepLearning.AI

Python & AI / Machine Learning Bootcamp • London South Bank University

Skills

Python, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Feature Engineering, Model Evaluation, EDA, FastAPI, Flask, REST APIs, Docker, Git, PostgreSQL, AWS, CI/CD, CNNs, OpenCV, RAFT Optical Flow, LLM applications, RAG systems, Experiment Tracking, MLOps

Additional information

Dissertation Project • Financial Distress Prediction Using Deep Learning (MSc Dissertation)
- Designed a computer vision-based financial risk prediction framework by transforming SEC 10-K financial ratios into structured image representations and modelling temporal change using RAFT Optical Flow.
- Built CNN and RAFT-based deep learning models achieving 93–95% classification accuracy with ~0.90 recall, outperforming traditional numeric ML approaches.
- Provided interpretable risk insights via magnitude and angle flow map analysis to support earlier distress detection and decision-making.
- Implemented an end-to-end ML pipeline using Python, PyTorch, TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy, and Matplotlib.