

# KUMAIL HAIDER

## AI / Machine Learning Engineer

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### PROFESSIONAL SUMMARY

AI Engineer with production ML experience designing and deploying systems that deliver measurable business impact. Improved customer re-engagement by 12–18% through predictive modelling and automated data pipelines. Expertise in Python, PyTorch, and production ML systems, with hands-on experience building Agentic AI and Retrieval-Augmented Generation (RAG) workflows for intelligent decision support. Strong background in computer vision, deep learning, and scalable MLOps pipelines for real-world applications.

### TECHNICAL SKILLS

**Languages & Frameworks:** Python, PyTorch, TensorFlow, Scikit-learn

**Data & Analysis:** Pandas, NumPy, Matplotlib, Feature Engineering, EDA

**Infrastructure:** PostgreSQL, AWS, Model Deployment, Experiment Tracking

**ML/AI Specialties:** Agentic AI, RAG Systems, LLMs, CNNs, Computer Vision

**Engineering & DevOps:** FastAPI, Flask, REST APIs, Docker, Git, CI/CD, MLOps

**Specialized:** OpenCV, RAFT Optical Flow, Model Evaluation, A/B Testing

### PROFESSIONAL EXPERIENCE

#### 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 Agentic AI and RAG-based workflows for intelligent career analysis and decision support, leveraging LLMs for automated insights generation
- Engineered 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

#### Industry Mentor & Client Project Manager — London South Bank University

Feb 2025 - Apr 2025

- Mentored student teams through agile software engineering projects, conducting sprint reviews and providing structured feedback on requirements and deliverables
- Improved delivery quality and reduced rework through clearer acceptance criteria and structured technical guidance

#### 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 production constraints

### KEY PROJECTS

#### Financial Distress Prediction Using Deep Learning (MSc Dissertation) • 2024-2025

- Designed a computer vision-based financial risk prediction framework by transforming SEC 10-K financial ratios into structured image representations, 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 for earlier distress detection and decision-making
- Tech Stack: Python, PyTorch, TensorFlow, OpenCV, RAFT, Scikit-learn, Pandas, NumPy, Matplotlib

### EDUCATION

**MSc Applied Artificial Intelligence — Distinction (Expected)**

London South Bank University, London

*Oct 2024 - Nov 2025*

**BSc Computer Science**

University of South Asia, Lahore

*Jan 2019 - Mar 2023*

## **CERTIFICATIONS**

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- Machine Learning Specialization — DeepLearning.AI (2024)
- Python & AI/Machine Learning Bootcamp — London South Bank University (2024)