

Ubaid ur Rehman

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Summary

Final-year AI student specializing in document intelligence and multi-agent LLM pipelines, with production experience fine-tuning OCR/vision models and integrating them into full-stack enterprise systems. Built a dual-engine document extraction platform at 10Pearls (Azure Document Intelligence + fine-tuned GLM-OCR) and led AI pipeline design for a multi-agent document-processing FYP. Seeking a Generative AI / ML engineering role to apply CV, OCR, and LLM-integration experience to production systems.

Professional Experience

10Pearls

Machine Learning Intern

Jun 8 – Aug 10, 2026

Lahore, Pakistan

- Co-developed a dual-engine document intelligence platform integrating Azure Document Intelligence and a fine-tuned GLM-OCR (1.1B) model to automate structured data extraction from insurance forms (NAF, CNIC, Proposal documents).
- Fine-tuned GLM-OCR using LoRA (fp16, rank 16) on a 636-sample dataset of human-verified and synthetic form images; deployed via SGLang on Vast.ai GPU infrastructure, cutting inference latency to 1.2 seconds/page.
- Integrated both extraction engines into a Django backend with multi-threaded PDF rendering, and built a React-based key-matcher supporting alias mappings and recursive field search across nested form schemas.

FAST-NUCES

FormMate – Multi-Agent Document Intelligence (Final Year Project)

Jan 2025 – May 2026

Lahore, Pakistan

- Designed and implemented a multi-agent document-processing pipeline (YOLOv11 OBB + Tesseract OCR + LLM integration) achieving 69% field-detection accuracy at 10–15s end-to-end latency per document.
- Built a full-stack Django + React application with JWT authentication, role-based access control (RBAC), and ONNX Runtime for optimized model inference in deployment.

Education

National University of Computing & Emerging Sciences (FAST-NUCES)

Bachelor of Science in Artificial Intelligence

Aug 2022 – May 2026

Lahore, Pakistan

Relevant Coursework:

- Machine Learning, Deep Learning, Computer Vision, NLP, Generative AI
- Data Structures & Algorithms, Databases, Operating Systems, Information Security, OOP

Projects

Job Automation Pipeline

Python, Selenium, n8n

- Built an end-to-end scraper delivering 500+ LinkedIn job listings per week via automated email digest, cutting manual job-search effort by 90%.

Healthcare Ecosystem Platform

Python, Django, MySQL

- Developed a multi-role Django platform connecting patients, doctors, and pharmacists with appointment booking, prescription management, and 4-role RBAC.

House Price Prediction System

Python, Scikit-learn, XGBoost, Flask, Streamlit

- Trained and ensembled 5 ML models via soft-voting on a self-scraped dataset, achieving 89–92% prediction accuracy; deployed as a public web app with Flask and Streamlit.

Open Source Contributions

- Contributed to **OmniRoute** and **freeCodeCamp** open-source repositories – bug fixes, feature additions, and documentation improvements as a community contributor.

Core Competencies

AI / ML (Core)	LLM Integration, RAG, Computer Vision, YOLOv8/v11, OCR (Tesseract, GLM-OCR), LoRA Fine-tuning, Azure Document Intelligence, FAISS, ONNX
Languages	Python, C, C++, SQL
Frameworks	Django, Flask, React, REST APIs, LangChain, OpenCV, Scikit-learn, Pandas, NumPy
Automation & Tools	Selenium, n8n, Git, GitHub, Postman, Linux (Ubuntu), Wireshark
Databases	MySQL, PostgreSQL, MongoDB
Certifications	Agentic AI (Coursera) · Generative AI (Coursera) · Prompt Engineering (Coursera)
Languages Spoken	English (Professional), Urdu (Native)