

Muhammad Moiz

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Full Stack AI Engineer & Researcher

Backend and AI engineer with over a year of production experience across international teams. I recently completed a Mitacs Globalink research internship at Algoma University, first-authoring a paper on emotion-aware product recommendation. Curious and observant by nature, I'm a quick learner who adapts fast to new problems and tools.

Education

National University of Sciences and Technology (NUST), Islamabad

Sept 2023 – May 2027

Bachelor of Science in Computer Science, CGPA 3.68/4.0

• *Relevant coursework: Machine Learning, Deep Learning, Artificial Intelligence, Large Language Models, Big Data Analytics*

Research Experience

Mitacs Globalink Research Intern

Jun 2026 – Aug 2026

Algoma University, Canada (On-site)

- First-authored EARS, an aspect- and emotion-aware recommendation system combining a fine-tuned emotion classifier, LLM-based aspect extraction, and a LightGBM reranker over collaborative-filtering candidates (manuscript in preparation)
- Built the aspect-extraction pipeline (self-hosted Qwen2.5-7B via vLLM) over 198K+ Amazon reviews and improved NDCG@10 by 25.4% over a strong collaborative-filtering baseline ($p = 9 \times 10^{-27}$), generalizing to two held-out product categories
- Ran a causal ablation and fairness investigation into a ranking-quality gap for negative-sentiment users, and built a TreeSHAP explanation layer verified at 100% accuracy against a deterministic groundedness rubric

Work Experience

Backend Engineer — Team Lead

Feb 2026 – Present

CloserCoach

Atlanta, USA, Remote

- Own backend architecture end-to-end for a live, production mobile app, from system design through deployment
- Lead sprint execution and coordinate delivery for the engineering team alongside hands-on individual contributor work

AI Engineer

Nov 2025 – Feb 2026

Labsbit.ai

Estonia, Remote

- Built a production agentic system automating an entire email-based ship buying/selling workflow for a maritime client, replacing a fully manual process
- Architected LangGraph multi-agent pipelines with Langfuse observability and integrated vector search for retrieval-augmented context

Software Engineer

Apr 2025 – Aug 2025

Veda AI

UK, Remote

- Owned architecture decisions and led client meetings for two Flutter/Firebase consumer apps (Encounter Adventures, Infinity Club), shipping both to the Play Store and App Store

Projects

TaxFolio — Final Year Project | *React/Next.js, FastAPI, PostgreSQL, OCR, LLM*

- Architecting a tax-reconciliation platform for Pakistani taxpayers with a hybrid AI/deterministic pipeline: AI handles fuzzy tasks (OCR, document classification) while all tax-figure arithmetic stays fully deterministic to eliminate hallucination risk
- Designing a wealth-reconciliation diagnosis engine using bounded subset-sum search and evidence-ranked pattern detectors to explain discrepancies rather than just flag them

Facial Emotion Recognition | *Python, TensorFlow/Keras, CNN*

- Compared 7 deep learning architectures for facial emotion classification on FER-2013; best model (CNN with data augmentation) reached 58.3% test accuracy, approaching the ~65% human-level baseline, backed by a full ablation study

IndustryLens | *Python, FastAPI, React, GenAI*

- Automated resume classification system reaching 96.3% accuracy across 18 tech roles, using dual-vectorization (TF-IDF) and synthetic data augmentation (Llama-3.1) to fix severe class imbalance in the training data

Awards & Certifications

- **PEEF Merit-cum-Need Scholarship** (2023–2027) — Government of Punjab, stipend
- **NUST Undergraduate Entrance Exam** — Ranked 2nd nationally (~50,000+ applicants)
- **NASCON Hackathon** — Runner-up, 3-person team, EdTech platform built in 8 hrs
- **Mitacs Edge Professional Development** — certificates in Leadership & Team Building and Research & Development Management

Skills

Languages: Python, TypeScript/JavaScript, Dart, C++

ML/Research: PyTorch, Hugging Face Transformers, SetFit, LightGBM, SBERT, TreeSHAP, LangChain, LangGraph, vLLM

Engineering: FastAPI, React, Next.js, PostgreSQL, AWS, GCP, Docker