

Syed Muhammad Uzair Ahmed

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PROFESSIONAL SUMMARY

AI Engineer graduated from FAST NUCES Karachi with hands-on experience in RAG pipelines, LLM fine-tuning, agentic workflows, and full-stack AI product development. Delivered a production-grade influencer marketing platform (SYNC) as Final Year Project, integrating a FastAPI ML microservice with Django REST and React. Improved semantic retrieval accuracy through hybrid search optimization during a software engineering internship. Passionate about building autonomous AI systems that combine reasoning, memory, and tool-use.

TECHNICAL SKILLS

Programming Python, Java, TypeScript, SQL
AI / ML PyTorch, Scikit-learn, LangChain, Hugging Face, LoRA, Optuna, RAG Systems, LLMs, VLMs
Backend Django REST Framework, FastAPI, Spring Boot, REST APIs, JWT Auth, Celery, Redis
Frontend React 19, TypeScript, Vite, Tailwind CSS, Axios
Cloud AWS (EC2, Lambda, S3, SageMaker, Bedrock), Groq API
Data Pandas, NumPy, ChromaDB, MySQL, Vector Databases

PROFESSIONAL EXPERIENCE

AI Software Engineer Intern Jun 2025 – Jul 2025

GoodCore Software, Karachi

- Fine-tuned a sentiment analysis model using LoRA and Optuna hyperparameter optimization, improving model stability and performance before deployment on Hugging Face Spaces.
- Designed and implemented a hybrid-memory RAG chatbot with persistent session context, enabling multi-turn reasoning across long conversations.
- Developed a semantic + keyword-based recommendation system with reranking logic, achieving measurable improvement in retrieval accuracy.

PROJECTS

SYNC — AI-Powered Influencer Marketing Platform Django · FastAPI · React · Groq LLM · MySQL

Final Year Project, FAST-NUCES Karachi, Spring 2026

- Architected a full-stack three-tier platform (React SPA + Django REST API + FastAPI ML microservice) enabling AI-assisted discovery and collaboration between businesses and influencers.
- Built an ML matching engine using Groq API (Llama 3.2) for zero-shot niche/popularity vector prediction; implemented two-stage ranking with cosine similarity (50%) and budget-price overlap (50%).
- Engineered a full collaboration lifecycle: negotiation, escrow-style payment hold, dual-side completion marking, and site-admin payout release with automated 10% platform fee calculation.
- Implemented credit-gated identity reveal with field-level encryption and JWT-based role separation across business, influencer, and admin portals.
- Integrated Meta Instagram API (OAuth) for live profile ingestion; built hybrid pricing model combining follower tier, engagement rate, verification status, and bot-detection adjustments.

Assignment Feedback Agent LangChain · RAG · Agentic AI · MCP-style Orchestration

- Built an agentic AI system evaluating student assignments via rubric-based scoring and structured LLM reasoning pipelines with tool-calling capabilities.
- Designed an MCP-style orchestration flow: agent decomposes tasks, selects tools, evaluates outputs, and iteratively refines feedback.

Autism Predictor Bot EfficientNetV2-S · Groq · Gradio

- Developed a deep-learning image classifier (EfficientNetV2-S transfer learning) for early autism screening with an LLM explanation layer for contextual prediction insights.
- Built end-to-end pipeline covering preprocessing, training, evaluation, and Gradio deployment.

Plumbing Guide RAG Chatbot LangChain · ChromaDB

- Built a retrieval-augmented chatbot with structured document chunking, conversational memory, and optimized vector-embedding retrieval for multi-turn troubleshooting support.

EDUCATION

Bachelor of Science in Artificial Intelligence Aug 2022 – May 2026

FAST National University (NUCES), Karachi

Relevant Coursework: Machine Learning, Deep Learning, NLP, Computer Vision, Generative AI, Agentic AI Systems

CERTIFICATIONS

Google Data Analytics — Google (2024) | AWS Cloud Technical Essentials — AWS (2025) | AWS Generative AI Applications — AWS (2025) | Full-Stack React with Spring Boot — Pearson (2025)