

Muhammad Uzair Attiq

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Summary

Third-year BS Artificial Intelligence student holding Machine Learning and Deep Learning Specializations from Stanford University / DeepLearning.AI. Full-stack MERN background, now building LLM-powered applications across agentic systems, retrieval-augmented generation (RAG), and neural networks.

Projects

Autonomous LinkedIn AI Publishing Agent (Human-in-the-Loop) | *Python, LangGraph, MCP, Groq API, FastAPI, PostgreSQL, SQLite, Slack API, LinkedIn REST API, Langfuse, Render*

- Architected an end-to-end Human-in-the-Loop agentic pipeline using LangGraph and Groq LLMs that automates post generation, Slack review, and LinkedIn publishing, with tools split into independent MCP servers over stdio.
- Implemented an OAuth 2.0 token lifecycle with expiry detection, background refresh, and PostgreSQL/SQLite state sync, and deployed it on Render with a React dashboard that automates the full workflow.

Fitness Knowledge Assistant — Domain-Specific RAG Knowledge Pipeline | *Python, FastAPI, Qdrant Cloud, LangChain (LCEL), Sentence-Transformers, Cross-Encoders, Groq, Docker*

- Architected a production-ready RAG pipeline with custom markdown cleaning, multi-level header chunking, and metadata tagging, using Qdrant Cloud retrieval with a cross-encoder reranker for precise context.
- Served grounded, low-latency answers via Groq and LangChain LCEL through an async FastAPI backend, with a live React frontend, both deployed on AWS.

Anime Tracker — Retro-Styled Anime Watchlist Manager | *React, JavaScript, Vite, Tailwind CSS, Framer Motion, Supabase, Capacitor*

- Built a React anime tracking app that organizes watched, completed, and in-progress titles in a retro-styled dashboard, with Framer Motion animations.
- Implemented real-time data sync with Supabase and a local fallback, so the watchlist still works offline.

Workout Logger — Mobile-First Fitness Tracking App | *React, TypeScript, Vite, Tailwind CSS, Capacitor, Android (Gradle)*

- Built a mobile-first tracker with gesture-based digit input, offline storage, and per-exercise volume history, packaged as an Android APK with capacitor.

Certifications

- Machine Learning Specialization – Stanford University & DeepLearning.AI (Completed, July 2026)
- Deep Learning Specialization – Stanford University & DeepLearning.AI (Completed, August 2026)
- Python Programming Certificate – Stanford University (Completed, May 2026)

Technical Skills

AI & LLM: LangChain (LCEL), LangGraph, MCP, RAG, Agentic AI / Tool Calling, Vector Databases & Embeddings, Cross-Encoder Reranking, LLM Evaluation, Langfuse, OpenAI API, Groq API, Gemini Vision API

Machine Learning: TensorFlow, Keras, Scikit-Learn, NumPy, Pandas, Neural Networks (CNN, RNN, LSTM, Transformers)

Backend & Frontend: Python, TypeScript, JavaScript, FastAPI, Node.js, Express.js, React.js, Tailwind CSS, REST APIs, PostgreSQL, MongoDB, SQLite

Cloud & Tools: AWS (EC2, S3, CloudFront), Render, Vercel, Docker, Nginx, Qdrant, Supabase, OAuth 2.0, Git, GitHub

Leadership & Activities

Team Lead, GradientGang – Team Lead, GradientGang: co-led a three-person AI team in an AMD-sponsored hackathon.

Education

Bahria University

Islamabad, Pakistan

Bachelor of Science in Artificial Intelligence – CGPA: 3.5/4.0

- Relevant Coursework: Artificial Intelligence, Machine Learning, DBMS, Data Communication & Networking, Software Engineering