Adil Ali Lakhair

AI Engineer • LLM Fine-Tuning • RAG Pipelines • Deep Learning
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Professional Summary

AI Engineer with hands-on experience building LLM fine-tuning systems, retrieval-augmented generation (RAG) pipelines, and production-ready AI applications. Creator of Mobius LLM Engine and architect of custom agentic workflows used across multiple client deployments. Skilled in Python, Transformers, vector databases, model optimization, and integrating AI systems into full-stack applications. Passionate about advancing intelligent systems through scalable, efficient, and secure architectures.

Technical Skills

AI & Machine Learning: LLM Fine-Tuning, LoRA/QLoRA, Embeddings, Vector Databases, RAG, Tokenization, Evaluation Metrics, Model Serving
Frameworks & Tools: PyTorch, HuggingFace Transformers, LangChain, FastAPI, ChromaDB, Faiss, SentenceTransformers
Programming Languages: Python, JavaScript, PHP, Java, C++, Dart
Backend Development: Node.js, Express.js, REST APIs, MySQL, MongoDB
Frontend Development: React, JavaScript, HTML, CSS, Bootstrap, Flutter
DevOps & Platforms: Git, Linux, Docker (beginner), Deployment, SSL, Hosting Configuration
Other Skills: Data Analysis, Inventory Systems, Teaching & Mentorship

Experience

AI Engineer / Full-Stack Developer — Fiverr   2019 – Present

- Delivered 50+ full-stack and AI-enabled applications for international clients using Python, React, Node.js, and NLP pipelines.
- Designed and deployed LLM-powered chatbots, custom automation flows, and data processing models.
- Integrated embeddings, vector search, and multimodal components to support client AI applications.
- Optimized model inference latency through prompt engineering, caching, and backend improvements.
- Implemented APIs and backend services to support AI systems with high uptime and reliability.

Frontend Developer — Fiverr   2019 – 2025

- Built responsive UI components using React, JavaScript, and Flutter for web and mobile apps.
- Improved performance and load times through optimized rendering, code splitting, and caching.
- Collaborated with designers and backend teams to integrate AI-powered features and interactive UX.

Instructor — Win Academy Dadu   2025 – Present

- Teach Java, C++, Python, NLP fundamentals, and web development using project-based learning.
- Developed structured course modules aligned with industry concepts and software engineering standards.
- Mentored students through AI mini-projects, debugging, and deployment workflows.

NLP Intern — Elevvo Pathways 2025

- Assisted in preprocessing text datasets, experimenting with tokenization strategies, and evaluating LLM outputs.
- Supported building prototype NLP pipelines for internal research use.

KPO Executive — Unilever (Shahbaz Traders) 2022 – 2023

- Increased inventory accuracy by 20% through data verification, process optimization, and system checks.
- Analyzed sales data and market trends to support operational decision-making.
- Maintained billing, invoicing, and stock records using NewsPage 8.0.

AI Projects

Mobius LLM Engine

- Designed a GUI-based fine-tuning engine enabling LoRA/QLoRA adaptation for LLMs such as LLaMA, Mistral, and GPT-J.
- Automated dataset preprocessing, tokenizer handling, training loops, evaluation metrics, and export pipelines.
- Improved fine-tuning workflow efficiency by reducing model customization time from hours to minutes.

Anubis RAG Architecture

- Developed a scalable RAG pipeline using ChromaDB, Faiss, and SentenceTransformers embeddings.
- Implemented context-aware retrieval, query re-ranking, and long-context summarization modules.
- Deployed full system with FastAPI backend and React-based chat interface.

Aiora Multimodal Assistant

- Built a multimodal chatbot with text, voice synthesis, and agentic task execution.
- Integrated speech-to-text models and prompt-engineered workflows for improved response accuracy.
- Enabled structured tool-calling actions for automated tasks and data extraction.

Education

Bachelor of Science in Computer Science
Sukkur IBA University 2024 – 2028
GPA: 3.62
Relevant Coursework: Data Structures, Algorithms, Machine Learning, NLP, Deep Learning, Operating Systems, Software Engineering

Intermediate in Pre-Medical
BISE Hyderabad 2021 – 2023

Certifications

Ethical Hacker
Python for Data Science
Prompt Engineering for Everyone