

Farjad Kareem

AI Engineer | Data Engineer | Backend Developer

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PROFILE

AI & Data Engineer experienced in LLM fine-tuning, data pipeline automation, and backend API development using Flask, FastAPI, and Azure. Skilled at deploying production-ready AI solutions and optimizing end-to-end ML workflows.

EDUCATION

National University of Computer and Emerging Sciences (FAST-NU), 08/2021 – 07/2025
BS Data Science Lahore, Pakistan

WORK EXPERIENCE

DataFuzeo, Associate AI engineer (Part time) 10/2025 – Present

- Built and deployed **RAG (Retrieval-Augmented Generation)** systems integrating **LLMs** with custom data sources for intelligent chatbots.
- Developed **AI-driven web applications** using **Django, REST APIs**, and **LangChain** for scalable model serving.
- Integrated **vector databases** (FAISS, ChromaDB) and **embedding models** to improve document retrieval and context precision.
- Automated **AI workflows** using **n8n**, combining NLP, API calls, and data pipelines for client use cases.
- Optimized **prompt engineering** and **context window management** to enhance LLM accuracy and efficiency.
- Collaborated on **frontend integration** (React + TailwindCSS) to deliver interactive AI dashboards and chatbot interfaces.

Fleekbiz Pvt Ltd, Jr. AI & Backend Developer 2025 – Present
Lahore, Pakistan

- Developed and optimized **5+ core RESTful APIs** using Python (Flask/FastAPI) and Node.js (Express), ensuring scalability for production use cases.
- Managed SQL (PostgreSQL/MySQL) and NoSQL (MongoDB) databases, **optimizing key transactional queries to improve data retrieval speed by an estimated 15%.**
- Applied best practices to identify and resolve critical backend issues, **improving code performance and maintainability.**

Systems Limited, Data Analyst and A.I Intern 2024 – 2024
Lahore, Pakistan

- Conducted in-depth data analysis and trained machine learning models for predictive insights, **improving the accuracy of forecasts by 22%.**
- Implemented model deployment pipelines on **Azure (leveraging Az-900 knowledge)**, achieving seamless and efficient integration of ML services into production.

- Conducted basic research on **Large Language Models (LLMs)** and developed foundational chatbot prototypes.

SKILLS

Programming: Python, SQL

Frameworks: Flask, FastAPI, Node.js, Django

AI / ML: Scikit-learn, PyTorch, TensorFlow, BERT, LoRA, LangChain, Hugging Face

Data & Cloud: MySQL, PostgreSQL, MongoDB, Azure, Google Cloud, Docker

Other: REST APIs, Data Visualization, Web Scraping

COURSES

Introduction to Data Science, Database Systems, Data Analysis & Visualization,, Big Data, Artificial Intelligence, Natural Language Programming, Data Mining,Generative AI, Introduction to Cloud(AZ-900)

PROJECTS

AI-Driven Threat Intelligent System

- Developed a system to detect abnormal network traffic and phishing emails using **BERT** and **Google Cloud NLP**.
- Built secure, role-based backend APIs with **JWT authentication** and real-time detection dashboards for threat monitoring.
- Automated ML model retraining and log management using **Flask microservices** and **MongoDB** for continuous deployment.

Smart Summarizer (LLM + LoRA)

- **Fine-tuned a state-of-the-art LLM** using **LoRA** for summarizing academic papers from arXiv, with performance validated using ROUGE/BLEU and LLM-as-a-Judge evaluations.
- Engineered a multi-agent research assistant using **LangGraph** to search, rank, summarize, and compare research content automatically.
- Delivered an interactive web application for summarization, featuring model comparison and automated qualitative scoring.

Brand Logo Recognition

- Designed a machine learning algorithm that accurately detects brand logos in images, **achieving a 90% detection rate**.

Google Play store app analysis

- Built a machine learning-based recommendation engine that suggests relevant apps to new content creators, leveraging popularity and category trends.
- Performed **K-Means clustering** and **Random Forest classification** on scraped metadata (ratings, reviews, size, price) of thousands of Play Store apps to segment markets and identify high-performing targets.