Farjad Kareem

Junior AI Engineer | Applied ML & GenAI

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○ Github

PROFILE

Junior Software Engineer with a focus on AI-enabled backend systems. Experienced in implementing machine learning and LLM-based features such as RAG pipelines and chatbots, and integrating them into backend services using FastAPI and Django. Strong foundation in Python, databases, with a keen interest in growing as an applied AI and backend engineer.

EDUCATION

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

WORK EXPERIENCE

Fleekbiz Pvt Ltd, *Jr. AI & Backend Developer*   04/2025 – Present
                                                                               Lahore, Pakistan
- Designed and implemented **end-to-end backend systems** using **Django and FastAPI**, contributed to end-to-end backend systems using Django and FastAPI, working from database schema to API layer
- Built AI-enabled backend services including **RAG pipelines, chatbot APIs, and LLM-based automation tools** for production applications.
- Integrated PostgreSQL and MongoDB databases, optimizing queries and indexing strategies to improve response times by approximately **15%**.
- Implemented authentication, role-based access control, background tasks, and structured logging to ensure scalability and reliability.
- Worked closely with product and frontend teams to deliver full-stack AI features from concept to deployment.

Fleekbiz Pvt Ltd, *Python Intern*   01/2025 – 04/2025
                                                                               Lahore,pakistan
- Developed a strong foundation in **Python programming**, including OOP concepts, data structures, and algorithms.
- Built ETL pipelines using **Apache Airflow**, **Pandas**, and **PySpark** to process and transform data from APIs, web scraping (BeautifulSoup, Scrapy), and file sources
- Developed **RESTful APIs** with Node.js and Express.js, implementing JWT and OAuth authentication with role-based access control
- Applied security best practices (OWASP) and performance optimization to backend systems
- Integrated **backend APIs** with ETL workflows for seamless data exchange between systems

Systems Limited, *Data Analyst and A.I Intern*   07/2024 – 08/2024
- Trained and evaluated machine learning models for forecasting tasks,   Lahore, Pakistan
  achieving **~22% improvement in predictive accuracy** through feature
  engineering and model tuning.
- Deployed ML inference pipelines on **Microsoft Azure**, integrating models
  into production services.
- Conducted exploratory data analysis to generate actionable insights and
  improve model interpretability.

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.
- Implemented a multi-agent assistant using LangGraph to automate paper search, ranking, and summarization.
- 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.

SKILLS

Languages: Python, SQL
AI / ML: LLMs, RAG, LoRA, Hugging Face, LangChain, PyTorch, scikit-learn
Backend: FastAPI, Flask, Django, REST APIs
Databases: PostgreSQL, MySQL, MongoDB, FAISS
Cloud & Infra: Azure, Google Cloud, Docker

CERTIFICATES

- Generative AI with Large Language Models 🔗

- AI For Everyone 🔗