MUHAMMAD FAKHAR

Full Stack AI/ML ENGINEER   Associate Software Engineer

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SUMMARY

AI/ML Engineer with hands-on experience in developing predictive models, intelligent chatbots, and comprehensive machine learning solutions. Proficient in full-stack development, building production-grade applications, and implementing MLOps practices including CI/CD and cloud deployment. Strong expertise in Generative AI, Agentic AI systems, and modern software engineering

EDUCATION

- **Intermediate**   Pakistan Air Force College Sargodha   (2018 – 2020)
- **Bachelors in Computer Science**   COMSATS University Islamabad   (2021 – 2025)

SKILLS

Core AI/ML: Data Preprocessing and Cleaning, Statistical Modeling and Analysis, Model Development and Evaluation, Deep Learning, Computer Vision, NLP, LLM Finetuning, Advanced OCR, RAG Chatbots, Prompt engineering, LLM Deployment

Agentic AI & Automation: Agentic AI & Multi-Agent Systems, LangGraph & Agent Orchestration, Pipeline Design and Automation, CI/CD

Frameworks & Libraries: PyTorch, Scikit-Learn, TensorFlow, NumPy, Pandas, Scipy, Matplotlib, Seaborn, NestJS, React, Matplotlib

MLOps & DevOps: Docker, AWS (S3, EC2, SageMaker, Batch, Lambda), Terraform, Jenkins, DVC, MLFlow, Git, Version Control

Software Engineering: OOP, SOLID Principles, Microservices Architecture, Test-Driven Development (TDD), Agile/Scrum Methodologies

Mobile & Web development: React, Flutter, Javascript, RESTAPI, Nodejs, FastAPI & Flask, PostgreSQL/MongoDB, Backend Development

WORK EXPERIENCE

Junior AI/ML Engineer   *Jan 2024 – Jan 2026*

Orixity Solutions, Islmamabad

- Engaged in end-to-end ML projects, from data collection to model deployment.
- Implemented MLOps practices for continuous integration and delivery of machine learning models.

AI Solutions Expert   *Feb 2023 - Jan 2024*

FirstExist Solutions, Bostwana (Remote)

- Developed machine learning solutions for mining machinery and industrial data.
- Built predictive models to estimate maintenance schedules and equipment lifespans.

PROJECTS

Gold Mines Machine Age Prediction (Bostwanian Project)

- Project focused on estimating **the age of gold mining machines**.
- Predicted the estimated age of gold mining machines by integrating multiple industrial datasets.
- Collected and cleaned large volumes of raw data from various sensors and logs.

AI-Powered Food Ordering App – FYP (French Product)

- Developed a food ordering Flutter application with integrated **realtime RAG chatbot** to assist users in exploring menus, placing orders, and receiving personalized recommendations.
- Engineered a **Route-Based Ordering System** that calculates user travel paths and synchronizes food preparation times with restaurant locations for optimal pickup timing
- Designed a **dynamic embedding update mechanism** to keep the chatbot contextually aware of live menu changes, discounts, and user preferences in real time

Context-Aware Spam & Vulgar/Adult content filtering (Secure Chatting App)

- Built a semantic-aware spam detection model using **LSTM-based deep learning models** that understands the **context and intent** of messages
- Leveraged **real-time context validation** to significantly reduce false negatives in spam classification
- Developed real-time vulgar and pornographic content detection and filtering to enforce platform safety.
- Integrated both modules into a **secure chat application** to enable safe, automated message moderation

Saudi Law RAG Chatbot

- Built an Arabic **voice-enabled chatbot** that answers questions about Saudi Arabian laws using RAG system.
- Processed **Arabic legal documents** and created hybrid search system to retrieve relevant legal information accurately
- Integrated speech-to-text and text-to-speech for **natural voice conversations**, making legal guidance accessible in Arabic

Full-Stack E-Commerce Platform

- Built a full-stack e-commerce platform using Reactjs on the frontend and Go on the backend with a microservices setup
- Added secure login, role-based access, product management, orders, payments, and real-time inventory updates
- Deployed the system on vercel(frontend) and Railway(backend) with scalable and reliable infrastructure

CERTIFICATIONS

Machine Learning Specialization | Advanced Learning Algorithms   (DeepLearning.AI, Stanford University)