Faris Mohamed Kishtah

AI/ML Engineer | RAG & Generative AI Systems | Full-Stack Python | MLOps

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PROFESSIONAL SUMMARY

Computer & Intelligent Systems student (Future University in Egypt, expected 2027) with hands-on experience building end-to-end RAG, LLM, and MLOps platforms using Python, FastAPI, React, LangChain, Hugging Face, FAISS, ChromaDB, Neo4j, and Docker. Combines applied machine learning — classification, regression, deep learning, computer vision — with production-oriented backend/frontend engineering, observability, and automated testing across generative AI, medical AI, and full-stack software projects.

TECHNICAL SKILLS

Programming & ML: Python, C++, SQL, NumPy, Pandas, scikit-learn, TensorFlow, Deep Learning, Computer Vision, Model Evaluation

Generative AI & RAG: LLMs, RAG, GraphRAG, LangChain (LCEL), Hugging Face Transformers, FAISS, ChromaDB, Neo4j, Vector Search, BM25, Embeddings, Prompt Engineering, PEFT/LoRA, Quantization, AI Agents, Ollama

Backend & MLOps: FastAPI, PostgreSQL, pgvector, SQLite, Redis, MLflow, Docker, CI/CD (GitHub Actions), JWT, RBAC, Model Monitoring, Drift Detection, Nginx

Frontend & Product: React, TypeScript, Next.js, Streamlit, Tailwind CSS, Dashboard Design, UI/UX

Data & BI: SQL, Excel, Power Query, Power BI, Pandas, NumPy, Matplotlib, Seaborn, EDA, KPI Design

Testing & Tools: Git, GitHub, Pytest, Playwright

EXPERIENCE

AI & Machine Learning Intern — Samsung Innovation Campus *Jul 2026 – Present*

- Applying data preprocessing, supervised and unsupervised learning, feature engineering, and model evaluation in a structured AI/ML training program using Python, NumPy, Pandas, and scikit-learn.
- Translating real-world problems into machine learning tasks and evaluating model performance through Jupyter-based experimentation.

Generative AI & RAG Intern — Tips Hindawi *Jun 2026 – Jul 2026*

- Completed hands-on training in LLM applications, Hugging Face, Retrieval-Augmented Generation, LangChain, semantic retrieval, vector search, and local model inference.
- Built an end-to-end multimodal RAG platform as final project — document extraction, chunking, embeddings, FAISS indexing, LangChain/LCEL chains, PromptTemplate, and PydanticOutputParser for grounded, cited Q&A.
- Extended the platform with audio/video transcription and timestamped Q&A, then validated it with backend, integration, and end-to-end tests.

Customer Service Representative, Amazon Account — Concentrix *6 months*

- Resolved customer inquiries and order-related issues in a high-volume environment while meeting service-quality and performance targets, developing communication, problem-solving, and KPI-driven service skills.

PROJECTS

Enterprise AI Manufacturing Platform (Controlled Pilot) github.com/fariskishtah/enterprise-ai-platform

- Independently designed and built an end-to-end manufacturing AI/MLOps platform: FastAPI backend, Dramatiq async workers, React/TypeScript/Vite frontend, PostgreSQL, Redis, and a Dockerized observability stack (Prometheus, Grafana, Loki, Alloy).
- Shipped v1.0.0 with JWT auth and refresh-token rotation, RBAC (admin/engineer/operator), a company-to-factory-to-machine-to-sensor hierarchy, sensor ingestion, and bounded CSV ETL.
- Built asynchronous training jobs (Random Forest regression/classification) with MLflow tracking and candidate/challenger/champion model governance, plus drift, data-quality, and prediction-audit monitoring, HTTPS deployment, and end-to-end workflow testing.

EnterpriseRAG – AI Knowledge Intelligence Platform github.com/fariskishtah/enterprise-rag-platform

- Independently designed and built an end-to-end multimodal RAG platform (PDF, DOCX, TXT, audio, video) with a custom hybrid retrieval engine (dense + BM25-style + reranking) and an optional LangChain/LCEL engine using FAISS, PromptTemplate, and PydanticOutputParser.
- Implemented local LLM inference (Qwen2.5-0.5B-Instruct), embeddings (sentence-transformers/all-MiniLM-L6-v2), and speech-to-text (faster-whisper) behind a FastAPI backend and React/TypeScript frontend.
- Achieved 6/6 correct answers with 100% retrieval accuracy and citation validity on a deterministic evaluation (60+ backend tests); optimized Compare/Research Report latency 5–8x on an 8GB memory-constrained device.

AI Document Intelligence Platform github.com/fariskishtah/ai-document-intelligence-platform

- Built a production-style multi-document RAG platform with hybrid BM25/vector retrieval, citation-based answers, Arabic-English support, and Neo4j GraphRAG, using FastAPI, Streamlit, ChromaDB, Docker, and GitHub Actions CI.
- Implemented document ingestion, chunking, and embeddings alongside agentic report generation, analytics, feedback tracking, retrieval debugging, and confidence indicators.

NeuroScan AI github.com/fariskishtah/neuroscan-ai

- Built an AI-assisted brain MRI review application with tumor-pattern prediction, confidence scoring, and Grad-CAM heatmap explanations using deep learning and computer vision, deployed via FastAPI, Docker, and Hugging Face Spaces.
- Designed an explainable clinical workflow — case history, clinical dashboard, PDF medical-style reports — positioned as a research/decision-support tool rather than a diagnostic replacement.

Self-Improving AI Coding Agent github.com/fariskishtah/self-improving-agent

- Built a fully local autonomous coding agent following a Plan → Execute → Test → Reflect → Improve loop, using Pytest feedback and local LLM reasoning via Ollama.

Workflow Orchestration Platform github.com/fariskishtah/ewa

- Built a production-minded admin/operations workflow platform with JWT authentication, RBAC, workflow definitions, approval pipelines, audit logs, and automated API tests using FastAPI, PostgreSQL, Redis, ARQ, and Next.js.

House Price Prediction App

- Modeled Ames Housing data (2,930 records, 82 features) using imputation, encoding, feature selection, and scaling; best model (Random Forest) achieved R^2 of 0.892 and MAE of approximately $17.8K.

Additional projects: AI-Powered Video Editing MVP (Whisper/FFmpeg scene & filler-word detection), J.A.R.V.I.S KISHTAH desktop AI assistant, Offline Local AI Chat App (Ollama/Streamlit), ESP32-based IoT home security system, Power BI dashboards for hotel booking, healthcare, and sales analytics, and embedded systems builds (ROV competition entry, 6-DOF robotic arm, STM32 smart garage system).

EDUCATION

B.Sc. Computer & Intelligent Systems — Future University in Egypt (FUE)

Expected Graduation: 2027

TRAINING & CERTIFICATIONS

- **Data Analysis & AI Training** — Instant Software Solutions (SQL, Excel, Python, Pandas, Power BI, Visualization, Data Cleaning, Web Scraping, Statistics)
- **Python Programming** — NVIDIA (MCIT Initiative)

LANGUAGES

Arabic (Native) | English (Upper-Intermediate, B2)