ABDULAZIZ MUBARAK ALMUBARAK

Computer Science Graduate | AI Engineer | LLM & Agent Systems
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PROFESSIONAL SUMMARY

Computer Science graduate focused on AI engineering and applied LLM systems. Built practical projects across AI agent orchestration, hybrid RAG, secure Text-to-SQL, ML-backed APIs, and business-focused AI applications. Hands-on with Python, tool calling, retrieval/reranking, guardrails, embeddings, testing, and API integration.

EXPERIENCE

Security Engineering CO-OP Intern - AI-Assisted Systems Jun 2025 - Aug 2025
Lantern Software and Security Systems Co. LTD - Al Khobar, Saudi Arabia
- Supported planning and documentation for integrated security systems and site layouts on a large-scale client project.
- Collaborated with the AI department to explore AI-assisted workflow improvements and gained cross-functional exposure to system integration and operations.

PROJECTS

AI Agent Orchestration System
Personal AI Engineering Project
- Built a rule-based agent planner that routes tasks to tools such as document search, summarization, report generation, calculator, and mock APIs. Implemented SQLite task history and human approval for controlled workflows.
  Stack: Python, SQLite, Ollama, Tool Calling, Workflow Orchestration, Human-in-the-Loop

Hybrid RAG Document Assistant
Personal AI Engineering Project
- Built a multi-format RAG assistant for PDF, DOCX, TXT, and PPTX with source-grounded responses and citation-focused generation. Combined FAISS vector retrieval, BM25 keyword search, and Cross-Encoder reranking.
  Stack: Python, FAISS, BM25, Sentence Transformers, Cross-Encoder Reranking, LLM APIs

Text-to-SQL with Guardrails
Personal AI Engineering Project
- Built natural-language-to-SQL generation with SQLGlot AST validation, SELECT-only enforcement, allowlists, row limits, read-only execution, RBAC, role-filtered schemas, and row-level controls.
  Stack: Python, SQLite, SQLGlot, RBAC, LLM APIs, Ollama

AI Investment Analyzer
Personal AI Engineering Project
- Built a machine learning decision-support app that evaluates investment opportunities and returns Invest, Review, or Reject with a 0-100 score. Integrated an XGBoost model behind FastAPI endpoints and a Next.js frontend.
  Stack: Python, XGBoost, FastAPI, Next.js, Scikit-learn, Pandas, API Tests

TECHNICAL SKILLS

Programming: Python, SQL, Java, C++
AI & ML: Scikit-learn, XGBoost, feature engineering, model evaluation, embeddings, Sentence Transformers, semantic similarity
LLM & Agents: AI agents, tool calling, workflow orchestration, human-in-the-loop, RAG, hybrid retrieval, reranking, semantic caching, Text-to-SQL, LLM evaluation
Backend & Data: FastAPI, REST APIs, SQLite, Pandas, NumPy, FAISS, BM25, SQLGlot
Development: Git, GitHub, Pytest, Streamlit, Next.js, Jupyter Notebook, Google Colab, Ollama

EDUCATION

Bachelor of Computer Science | Imam Abdulrahman Bin Faisal University (IAU) | Graduated: June 2026

CERTIFICATIONS & TRAINING

Microsoft Azure AI Fundamentals (AI-900); IELTS Academic - Overall Band 6.0; NITA - AI for Arabic NLP Applications; SDAIA - Fundamentals of Artificial Intelligence; SDAIA - AI Concepts and Advanced Applications; AWS Certified AI Practitioner Learning Path.

RELEVANT COURSEWORK

Artificial Intelligence | Data Mining & Data Analysis | Image Processing | Software Engineering | Data Structures & Algorithms

LANGUAGES

Arabic: Native | English: Professional Working Proficiency