Mohammed Tariq AL-Saqqaf

AI Specialist | AI Agents, Automation & Generative AI

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PROFESSIONAL SUMMARY

AI Solutions Developer with a Mechatronics Engineering background and hands-on experience independently building AI agents, RAG systems, workflow automation, data analytics solutions, and AI-powered web applications. Skilled in Python, LLM integration (Gemini, OpenAI, Claude), MCP, tool calling, vector search, evaluation, and deployment. Focused on reliable, auditable automation with permissions, human oversight, and cost control.

CORE SKILLS & TECHNOLOGIES

AI & Agentic Systems: AI Agents, MCP, RAG, Tool Calling, Prompt Engineering, LLM Evaluation, Guardrails, Persistent Memory, Human-in-the-Loop

Automation & Applied AI: Workflow Automation, AI Agents, RAG & LLM Integration, Reporting, Process Optimization, AI-assisted Content Workflows

Models & Retrieval: Gemini, OpenAI, Claude, Cohere, Hugging Face, E5 Multilingual Embeddings, Chroma, BM25, Hybrid RRF, Reranking

Development & Data: Python, Streamlit, JavaScript, Git/GitHub, Vercel, Hugging Face Spaces, Supabase, EDA, Predictive Modeling, Excel/Google Sheets

SELECTED AI & SOFTWARE PROJECTS

AquaMindAI-Agent | **Creator & Sole Developer** | **Live Demo** **2026**

- Built a deployment-oriented autonomous agent for desalination/RO operations using live Gemini calls, Plan-Act-Reflect reasoning, MCP knowledge search, SQLite persistent memory, permission tiers, audit logs, cost tracking, and prompt-injection defenses.
- Implemented reproducible success/failure traces and task-level budget controls; public Vercel deployment. Final verification: 572 automated tests passed with 100% coverage.

Yemen Opportunity Navigator RAG | **Sole Developer** | **Live Demo** **2026**

- Built a bilingual RAG application over 5,802 chunks using E5 multilingual embeddings, Chroma, BM25, Hybrid RRF, Cohere reranking, citations, authentication, favorites, and search history.
- Evaluated on a 30-question golden set: Recall@5 = 100% and RAGAS average = 0.9526; deployed as a public Streamlit/Hugging Face application.

Yemen Opportunities Portal | **Sole Developer** | **Live Demo** **2026**

- Built a responsive Arabic/English PWA for structured opportunity discovery and content management, with 50 curated opportunities from 43 sources, search/filtering, favorites, deadlines, RTL support, offline use, and GitHub Pages deployment.

Localized Real Estate Predictive Analytics | **Sole Developer** **2025**

- Developed an end-to-end Python machine-learning regression pipeline covering data cleaning, EDA, feature engineering, model evaluation, and predictive reporting.

RELEVANT EXPERIENCE

AI Model Evaluation & Training | **Project-based Experience**

- Hands-on work in prompt engineering, LLM output evaluation, technical accuracy verification, and logic auditing for engineering and technical tasks.

EDUCATION & CERTIFICATIONS

B.Sc. in Mechatronics Engineering • University of Science and Technology, Aden, Yemen • 2026

Selected Certifications: Google Advanced Data Analytics Professional • IBM AI Fundamentals • Cisco Introduction to Modern AI • Elements of AI (2 ECTS) • Claude 101 • Gemini Certified Educator & Student

LANGUAGES

Arabic: Native | **English:** Fluent | **French:** Beginner