

Omar Elfoly
AI Automation & LLM Engineer
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Summary

AI Automation & LLM Engineer skilled in building intelligent workflows using Python, OpenAI APIs, and LangChain. Experience implementing RAG pipelines, vector search, chatbot deployments, and agent-based automation. Strong engineering background with hands-on work in embedded systems and data processing. Fast learner with proven success delivering automation that saves time, reduces human error, and improves execution speed.

Technical Skills

- AI Engineering: LLMs (GPT, Claude, Gemini), LangChain, RAG, Vector DBs (FAISS), Prompt Engineering, Chatbots
- Software Engineering: Python, C++, REST APIs, CI/CD (Basics), Docker (Beginner)
- Automation: Workflows, Sheets Automation, N8N, Make.com
- CAD & Engineering Tools: AutoCAD, Revit, Fusion 360, ANSYS, CFD
- Soft Skills: Project Management, Collaboration, Leadership

Projects (AI Engineering)

AI Business Automation Agent (Python, LangChain, OpenAI API, Webhooks)

- Built autonomous AI agent to automate business tasks (email reply generation, lead qualification).
- Reduced manual admin time by 60% using workflow triggers + memory modules.

RAG-Based Document Chatbot (OpenAI Embeddings, FAISS, Streamlit)

- Implemented vector search pipeline to answer user questions directly from PDF documents.
- Ensured zero hallucination in restricted scope with source citations.
- Deployed lightweight UI for instant querying.

Customer Support FAQ Chatbot (Telegram API + N8N)

- Automated customer inquiry handling, resolving 70-80% of common questions automatically.
- Intent-based response design improved user routing and accuracy.

Experience

AI Engineering Intern - VdoCipher

- Remote | Jul–Aug 2025
 - Developed automation scripts to generate parameters from user input, reducing modeling time by 30%.
 - Optimized internal workflows by integrating LLM-assisted documentation generation.
 - Contributed to project coordination tools improving productivity and reducing delays.

Body & Aerodynamics Designer - Apex Racing Team

- Higher Technological Institute | 2023–2025
 - Employed CFD + AI-assisted simulation insights to optimize drag and airflow analysis.
 - Created automation scripts to preprocess geometry data → 25% faster simulation cycles.
 - Supported embedded control team by applying Python automation for test data extraction.

Operations Tech Lead - Vision Club

- ASU | 2022–2025
 - Deployed internal AI chatbot to handle event questions and reminders → saved 8 hrs/week manual work.
 - Automated registration and check-in processes, reducing human errors by 40%.
 - Managed technical operations for 5+ events/semester (100–200 attendees).

Education

B.Eng. in Electrical/Mechatronics Engineering

Higher Technological Institute

Certifications

- AI Associate Engineer for Developers - DataCamp
- Artificial Intelligence, Machine Learning & Digital Signal Processing - Electronics Research Institute