Abdullah Elsaid

AI & Data Engineer | NLP | Agentic AI | LLMs

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GitHub • LinkedIn

Summary

Passionate AI & Data Engineer and Computer Science graduate specialized in Artificial Intelligence, with hands-on experience in AI-powered automation, data engineering, and intelligent application development.I specialize in Generative AI, Agentic AI Systems, Large Language Models (LLMs), and Data Engineering to build innovative solutions that automate workflows, enhance decision-making, and create measurable business value.

Experience

AI Engineer at Hamber-hub, Cairo **February 2026 - June 2026**

Worked on developing AI-powered automation workflows and intelligent chatbot solutions to streamline business processes and improve operational efficiency. Collaborated with cross-functional teams to design, implement, and optimize AI applications using modern LLM and automation technologies.

- Developed AI automation workflows using n8n to automate business processes and data operations.
- Built LLM-powered chatbots using Gemini models and Agentic AI frameworks.
- Implemented Retrieval-Augmented Generation (RAG) techniques to improve chatbot accuracy and contextual understanding.

Machine Learning for Data Analysis Trainee at NTI **October 2024 - December 2024**

Completed hands-on training in Machine Learning and Data Analysis, gaining practical experience in data preprocessing, exploratory data analysis, predictive modeling, and model evaluation. Developed a strong foundation in both classical Machine Learning algorithms and Deep Learning techniques through real-world projects and case studies.

- Developed Machine Learning solutions using Regression, Classification, Clustering, and Ensemble Learning techniques.
- Implemented Deep Learning models including Artificial Neural Networks (ANNs) for predictive analytics tasks.

Business Intelligence Developer Trainee at ITI **August 2024 - September 2026**

Completed an intensive 120-hour Business Intelligence Development training program covering Data Warehousing, SQL Server Database Administration, Advanced SQL Queries, Statistics, Power BI, Tableau, and Excel Analytics. Developed practical skills in data analysis, reporting, dashboard creation, and business intelligence solutions.

- Learned Data Warehousing concepts and BI architecture fundamentals.
- Developed advanced SQL skills including query optimization, joins, subqueries, and analytical functions.
- Built interactive dashboards and reports using Power BI and Tableau.

Skills

Programming Languages: Python,C++,Java

AI/ML: Machine Learning, Deep Learning, NLP, Computer Vision, Model Evaluation

Agentic AI & Automation: LangChain, LangGraph, CrewAI, n8n

Machine Learning Frameworks: TensorFlow, Scikit-learn

Tools & Platforms: Git, GitHub, Docker,Linux

Backend & APIs: FastAPI, REST APIs

Databases: SQL Server, PostgreSQL, MySQL

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Power BI

Generative AI: LLMs, RAG, AI Agents, Multi-Agent Systems, Prompt Engineering, MCP

Computer Science Fundamentals: Data Structures,Algorithms,OOP,DBMS

Projects

RAG-Chatbot • GitHub

An Agentic Retrieval-Augmented Generation (Agentic RAG) chatbot built with LangGraph, Google Gemini, and CopilotKit. Upload documents, ask questions in natural language, and receive context-aware answers grounded in your uploaded data.

- This project implements an agentic RAG system where the agent can decide to retrieve documents, rewrite the question, or respond directly depending on the context.
- Provides context-aware answers grounded in user-provided data.

Grad project - AI Powered Inventory • GitHub

An advanced autonomous agent developed as part of the graduation project using LangGraph and Google Gemini to interact with inventory databases.

- Generates dynamic SQL queries from natural language inputs.
- Retrieves and analyzes structured data from inventory systems.

Trip Duration Prediction • GitHub

Built a supervised Machine Learning model to predict NYC taxi trip duration based on spatio-temporal and ride-related features.

- Applied multiple Machine Learning algorithms.
- Performed data preprocessing, feature engineering, and handling of missing/outlier values.
- Evaluated model performance using standard regression metrics (MAE, RMSE).

Problem Solving

competitive programmer at Leetcode

Solve 350+ algorithmic problems on LeetCode covering data structures, algorithms, and optimization techniques, with a strong focus on improving problem-solving, analytical thinking, and coding efficiency.

Education

Bachelor's degree in Computer science at Benha University, Banha **October 2022 - June 2026**

Grade: 3.1

Languages

Arabic - Native

English - Proficient