Omar Wael Attia

Senior Data Scientist, GenAI · Dubai, UAE · omarwaelattia96@gmail.com

Summary

Senior Data Scientist with 4+ years in data science and 3 years in software engineering. At Al-Futtaim, builds the group's conversational AI: Blue Advisor, a text chatbot serving every business division, and the 800 Al-Futtaim voice agent, built with LangChain, LangGraph and Azure Databricks. Earlier built anti-money-laundering ML for international banks and taught data science at the American University in Cairo. Master's research in large language models.

Experience

Senior Data Scientist — Al-Futtaim

12/2025 – Present · Dubai, UAE

Part of the Blue Rewards team, building GenAI assistants used across Al-Futtaim's divisions, including automotive (Toyota, Lexus), Health Hub, insurance, real estate, retail and financial services.

- **Blue Advisor (text chatbot):** built the group-wide GenAI assistant that answers customers across every Al-Futtaim division, using LangChain and LangGraph agent workflows to route each question to the right business.
- **800 Al-Futtaim voice agent:** built a voice AI agent for the 800 customer line that understands spoken requests and serves all Al-Futtaim divisions from a single number.
- **Toyota service appointment voice agent:** built a voice agent that lets Toyota owners book, reschedule and confirm vehicle service appointments by phone, connected to the service booking system.
- **Travel agent:** built an AI agent that helps customers plan trips, compare options and handle travel bookings through a conversational interface.
- **Evaluation framework:** built a reusable framework to test and monitor any AI agent in production, scoring response quality, accuracy and safety so teams can catch regressions before and after each release.
- **Platform and delivery:** built and deployed these agents on Al-Futtaim's agentic platform, using Azure Databricks for data and models and Azure DevOps for CI/CD.

Data Scientist — Data Gear Company

06/2022 – 11/2025 · Cairo (hybrid)

Anti-Money Laundering (AML) team, building ML solutions integrated with international banks' services.

- Built supervised and unsupervised AML models to detect suspicious activity.
- Collected and integrated data from diverse bank sources through ETL pipelines.
- Streamlined and deployed ML solutions on bank servers.

Research Assistant — The American University in Cairo (AUC)

06/2022 – 2025 · Cairo

- Researched requirements engineering with LLMs for business-school management.
- Contributed to academic papers and presentations.

Teaching Assistant — The American University in Cairo (AUC)

01/2022 – 06/2024 · Cairo

- Taught in the Data Science BSc: Data Mining, Data Visualization, Big Data, Databases, Practical Data Science.
- Led hands-on sessions on Python, Hadoop, Spark, Hive, H2O, Power BI and Tableau.
- Reviewed student assignments and code.

Software Engineer (part-time) — Phantasm Solutions

02/2021 – 2025 · Remote

- Built payment integrations with Stripe, Google Pay and Apple Pay.
- Developed features and fixed bugs across two web applications.

Education

- **MSc Computer Science and AI** (research in Large Language Models) — Faculty of Science, Cairo University · 09/2020 – Ongoing
- **Postgraduate Diploma in Artificial Intelligence** (9 months) — Information Technology Institute (ITI), Cairo, with EPITA, Paris · 04/2021 – 12/2021
- **BSc Computer Science** — Faculty of Science, Cairo University · 09/2014 – 06/2019 · First-class honours (ranked 1st), grade "Very Good"

Selected projects

- **Bank customer segmentation** (Data Gear): unsupervised segmentation for multiple banks, with models tuned to each bank's data, guiding personalised service strategies.
- **Trade product splitting and matching** (Data Gear): regex parsing plus sentence-transformer embeddings to match product descriptions; automated, deployed on the bank's server with a daily report.
- **ETL monitoring tool** (Data Gear): ML forecasts of next-day transaction counts per type, ETL pipelines, and a Django dashboard for real-time monitoring.
- **Real-time big-data dashboard** (Upwork client, Belgium): Dash/Plotly dashboard on Google BigQuery with live filtering.

Skills

Area	Tools
GenAI and LLMs	LangChain, LangGraph, AI agents (text and voice), agentic platforms, RAG, sentence transformers
Machine learning	scikit-learn, TensorFlow, NLP, recommender systems, pandas, NumPy
Data and big data	SQL (MySQL, Oracle, SQL Server), MongoDB, Cassandra, Spark, Hadoop, H2O, ETL
Cloud	Azure (Databricks, DevOps), AWS, GCP (BigQuery), DigitalOcean
Visualisation	Power BI, Tableau, Dash, Plotly, Matplotlib, Seaborn
Languages and web	Python, Java, Django, Laravel

Certifications

- Data Scientist with Python Track — DataCamp, 10/2021
- Predictive Analytics Modeler, Mastery Award — IBM, 07/2019