

AHMED SHARAF MOHAMMED

Data Engineer & Python Automation Specialist | BI & Machine Learning

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PROFESSIONAL SUMMARY

Data Engineer and Python Automation Specialist with 3+ years of experience designing ETL pipelines, automating data workflows, and building Power BI/Tableau dashboards for e-commerce, telecom, and market-research clients. Skilled in SQL, Python (Pandas, NumPy, scikit-learn), and data modeling, with hands-on machine learning experience spanning recommendation systems, NLP, and deep learning (currently completing Microsoft's DEPI ML Engineer track on Azure). Reduced manual reporting effort by 60% through automation and has trained 20+ cohorts in SQL, Power BI, and Python.

TECHNICAL SKILLS

Languages: Python, SQL, R, DAX, M (Power Query)

Python Libraries: Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Plotly, TensorFlow, Keras

BI & Visualization: Power BI, Tableau, Excel (Advanced), Google Sheets

Databases: MySQL, PostgreSQL, SQLite, SQL Server

Data Engineering & Automation: ETL Pipelines, Alteryx, SSIS, Web Scraping, Selenium, REST APIs

Machine Learning: Regression, Classification, NLP, Deep Learning, Recommendation Systems, MLflow, Azure AI

Other: Data Cleaning, Feature Engineering, Data Storytelling, Technical Training

PROFESSIONAL EXPERIENCE

Freelance Data Engineer & Trainer — Mostaqi.com (Remote)

Jun 2023 – Present

- Built and automated end-to-end ETL pipelines using Python (Pandas, Requests, SQL), cutting manual reporting effort by over 60%.
- Developed Power BI and Tableau dashboards integrating REST APIs and SQL data sources for client reporting.
- Designed predictive models for sales and customer retention using scikit-learn.
- Delivered technical training in Python, SQL, and Power BI to individual and corporate clients.

Operational Specialist — labouchee

Jul 2025 – May 2026

- Managed e-commerce operations and monitored KPIs across multiple sales platforms.
- Analyzed pricing strategy and campaign performance using Power BI and Excel, contributing to improved profit margins.
- Automated recurring sales reports and built visual dashboards for marketing and management teams.

Data Analysis Trainee — National Telecommunication Institute (NTI)

Jul 2025 – Oct 2025

- Completed a 120-hour professional data analysis program covering SQL, Python, Excel, Power BI, and Tableau.
- Delivered end-to-end data analysis projects, from raw data ingestion to visualization and reporting.

Data Analyst & Python Instructor — schooland collegelistings

Feb 2024 – Jan 2025

- Delivered data analysis and Python programming training sessions to student cohorts.
- Supervised student projects covering data cleaning, visualization, and predictive modeling.
- Guided participants in deploying dashboards using Power BI and Tableau.

CURRENT TRAINING PROGRAM

Machine Learning Engineer Trainee — DEPI (Microsoft AI Track, delivered by AMIT)

Nov 2025 – Jun 2026

- Completing a 6-month, Microsoft-backed ML engineering program: Python, statistics, deep learning, NLP, computer vision, Azure AI Fundamentals, Azure AI Engineer Associate, and MLOps with MLflow and Hugging Face.
- Ranked among top trainees in the Microsoft AI & Data program.

KEY PROJECTS

Personalized Recommendation System (Feedback-Loop) — *Python, Django, Machine Learning, MLflow*

- Built a hybrid e-commerce recommendation engine combining content-based filtering, SVD matrix factorization, and ALS collaborative filtering.
- Implemented real-time user interaction tracking (views, clicks, searches, cart actions) feeding an end-to-end ML pipeline with preprocessing, training, evaluation, and retraining.
- Integrated MLflow for experiment tracking and deployed REST APIs serving real-time recommendations.

Iraq Business Intelligence & Market Analysis — *Python, Power BI, SQL, Web Scraping*

- Analyzed 400,000+ business reviews across Iraq via a custom-built ETL pipeline for scraping, cleaning, and integrating multi-source data.
- Built interactive Power BI dashboards surfacing market trends across 15+ governorates for investors and entrepreneurs.

Financial Data Analysis Dashboard — *Power BI, SQL, Data Visualization*

- Analyzed financial and geographic data for US-based companies, building interactive dashboards with dynamic time- and sector-based filters.
- Visualized GICS sector performance and headquarters location mapping.

Data Transformation Pipeline — *Alteryx, SSIS, Power BI, SQL Server*

- Designed data transformation workflows processing school enrollment data with string transformations and cleaning.
- Built a star-schema data model and Power BI visualizations reporting on student-teacher ratios and institutional performance.

Job Lance — Career Platform — *Python, Django, Machine Learning*

- Developed a job recommendation platform as a graduation project, achieving an Excellent grade (97/100).

EDUCATION

Bachelor of Information Systems — Faculty of Computers & AI, Helwan University

2019 – 2023

- Graduation Project: Excellent (97/100).

CERTIFICATIONS

- Microsoft Machine Learning Engineer Program — DEPI (May 2026)
- Cisco Python Essentials 1 — Cisco (Oct 2025)
- Introduction to AI and Data Analysis — Engineers for a Sustainable Egypt (Aug 2025)
- Python Programming — MaharaTech, ITI (May 2025)
- Data Analyst Track — MaharaTech, ITI (Sep 2024, May 2024)
- Artificial Intelligence Introduction — IBM (Dec 2021)
- Data Challenger Track — Udacity (Sep 2021)
- Data Analysis: Skills for Freelance Professionals — 120 Hours

LANGUAGES

Arabic: Native

English: Professional Working Proficiency

ACHIEVEMENTS

- Ranked among top trainees in the Microsoft AI & Data program.
- Improved data processing speed by 60% through optimized Python scripts.
- Delivered 20+ training programs on SQL, DAX, Power BI, and Python.
- Received consistently outstanding client feedback on freelance data projects.