# **Mahmoud Mohamed Refaat**

Data Analyst | BI • SQL • Python • Power BI

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Military Status: Completed Mahmoud Refaat Mahmoud Refaat Mahmoud Refaat

#### **EDUCATION**

#### **B.Sc.** Mathematics & Computer Science

Faculty of Science

• Grade: Very Good (B+)

08/2016 - 08/2020 Benha

### **PROFILE**

Data Analyst (SQL, Python, Power BI) focused on inventory analytics and BI automation. Built reliable web-crawling and data-mapping flows to standardize multi-seller inventory for reporting.

# **SKILLS**

#### **Core Skills**

- Python (Pandas, NumPy, Scikit-learn)
- SQL (T-SQL, Query Optimization, Joins, Stored Procedures)
- Power BI (Dashboards, DAX, Power Query M)
- Excel (Pivot Tables, Advanced Formulas, Automation, Power Pivot)

### Learning & Development

- Machine Learning (Regression, Classification, Feature Engineering)
- ASP.NET Core MVC, Web API
- HTML, CSS, Bootstrap
- C# Programming

### **Supporting Skills**

- Web Scraping & Automation (Selenium, Scrapy, BeautifulSoup, Requests, API Integration)
- Data Visualization (Matplotlib, Seaborn)
- Data Warehousing & ETL Basics (Power Query, SQL Pipelines)

# PROFESSIONAL EXPERIENCE

# Data Analyst | BI & Sourcing Engineering - Z2Data

- Automated weekly **SQL-based reports** for customer inventory, reducing manual effort by 30%.
- Built and deployed web crawling solutions to continuously update inventory from multi-seller websites, improving data freshness and reliability.
- Delivered SQL-based reports covering **10+** clients on weekly basis.
- Processed 10,000,000+ electronic part numbers weekly for supplier evaluation and sourcing optimization.
- Conducted shortage and cross-functional analysis to suggest alternative **components**, helping mitigate supply risks for clients.
- Ranked suppliers based on pricing and availability, contributing to cost savings and supplier optimization across projects.
- Worked with SQL, Python, Power Query, and Excel automation to support data warehousing and BI dashboards.

Feb 2024 – Present Benha, Egypt

# **PROJECTS**

#### **SQL Stock Status Checker**

05/2024 - 06/2024

- Designed an SQL tool to instantly check in-stock vs. out-of-stock products using Part-ID inputs.
- Integrated with existing inventory database for real-time stock status.

# Web Scraping Tool for JavaScript-Rendered and Static Websites

- Developed a Python-based scraping pipeline for both static and JavaScriptrendered websites.
- Used Selenium, Scrapy, and BeautifulSoup to handle dynamic content loading.

05/2024 - 05/2024

• Automated data collection and exported results to Excel for streamlined analysis.

# House Prices Prediction - Advanced Regression Techniques (Kaggle) ∂

08/2025 - 08/2025

- Developed regression models to predict house prices with feature engineering and optimization.
- Achieved Kaggle leaderboard score: 0.14909

# Titanic Survival Prediction (Kaggle) ∅

07/2025 - 07/2025

- Built classification models (Logistic Regression & Random Forest) with preprocessing and feature engineering.
- Achieved **0.7676 accuracy** on Kaggle public leaderboard

# **COURSES**

• ASP.NET Core MVC – Coursera / Practical Projects	2024 – Present
• Web Scraping & Crawling – Applied Projects	2024 – Present
• SQL & Database Management – Coursera / Professional Experience	2022 – Present
• Machine Learning – Coursera / freeCodeCamp	2025 – Present

# **LANGUAGES**

Arabic: Native English: Very Good (Reading, Writing, Speaking)