Mahmoud Mohamed Refaat

Data Scientist | • Python • Machine Learning • SQL

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🛡 Military Status: Completed   🔗 Mahmoud Refaat   ⬡ MahmoudRefaat159   kaggle Mahmoud Refaat

EDUCATION

B.Sc. Mathematics & Computer Science   08/2016 – 08/2020
Faculty of Science   Benha
- Grade: Very Good (B+)

PROFILE

Data Scientist with a strong foundation in Python, statistics, and machine learning.
Experienced in building regression and classification models, feature engineering, and model optimization.
Completed multiple Kaggle projects (House Prices, Titanic) with leaderboard results.
Skilled in SQL and Power BI for data preprocessing, visualization, and business insights.

SKILLS

Core Skills
- Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn)Python (Pandas, NumPy, Scikit-learn)
- Machine Learning (Regression, Classification, Feature Engineering)
- SQL (Joins, Query Optimization, Stored Procedures)

Supporting Skills
- Data Visualization & BI (Power BI, Excel Advanced)
- Web Scraping & Automation (Selenium, Scrapy, BS4, API Integration)

Learning & Development
- Neural Networks (Keras, TensorFlow – basics)
- Natural Language Processing (NLP)
- SpaCy

PROFESSIONAL EXPERIENCE

Data Analyst | BI & Sourcing Engineering – Z2Data   Feb 2024 – Present
   Benha, Egypt
- 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.

PROJECTS

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

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   05/2024 – 05/2024
- Developed a Python-based scraping pipeline for both static and JavaScript-rendered websites.
- Used Selenium, Scrapy, and BeautifulSoup to handle dynamic content loading.
- Automated data collection and exported results to Excel for streamlined analysis.

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)