Mohammed Yasser Ismael

DATA SCIENCE STUDENT

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About Me

Data science student skilled in Python, SQL, and Power BI, with hands-on experience in data analysis, visualization, and machine learning. Passionate about extracting actionable insights from real-world datasets to support data-driven decision making.

Education

Faculty of Computers & Artificial Intelligence   **2023 – 2027**

- Cairo University – Information Systems Department

Digital Egypt Pioneers Initiative   **Jun 2025 – Dec 2025**

- Data Scientist

Skills

Technical Skills:

- **Python:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Scipy
- **SQL:** PostgreSQL, MySQL, SQL Server
- **Data Analysis:** EDA, Data Cleaning, Feature Engineering, Power BI, Excel
- **Machine Learning:** Regression, Classification, Clustering, Anomaly Detection, Model Evaluation
- **Deep Learning:** TensorFlow, PyTorch (CNNs, RNNs, Autoencoders, GANs, Transformers, Diffusion Models)

Soft Skills:

- Time Management
- Team Collaboration
- Critical Thinking
- Adaptability
- Problem Solving

Work Experience

Data Analyst Intern – Elevvo Pathways   **Sep 2025 – Oct 2025**

- Cleaned and analyzed four datasets using Python & Excel
- Built dashboards and reports to communicate insights

Data Analyst Intern – Uneeq Interns   **Oct 2025**

- Explored, cleaned and analyzed three different datasets using Python & Excel
- Built dashboards to communicate insights

Projects

Loan Defaulter Prediction System (Graduation Project – Digital Egypt Pioneers Initiative)

- Led a team of five to build an end-to-end loan default prediction system using ~350K records and 150 features from Kaggle datasets.
- Conducted business understanding, data cleaning, EDA, feature selection, and handled class imbalance using SMOTE and oversampling techniques.
- Trained and evaluated LightGBM, Random Forest, and CatBoost models, achieving the best ROC-AUC and accuracy with LightGBM, and deployed the final model via a web application to predict customer default risk.

Business Insights & Executive Report for Olist (Elevvo Pathways Internship Project)

- Analyzed Olist's multi-table e-commerce dataset covering customers, products, sellers, and orders to assess overall business performance.
- Produced an executive-level report with insights on customer behavior, product performance, and seller efficiency, and provided data-driven recommendations to leverage Olist's strengths and improve sales outcomes.

Flights Delay & Cancellation Analysis

- Analyzed a large-scale U.S. flight dataset (~5.5M records, 2015) to investigate delay and cancellation patterns.
- Performed data cleaning, exploratory data analysis, and visualization to identify key causes of disruptions, seasonal trends, and optimal travel periods, delivering actionable operational insights.

HR Employees Attrition Analysis

- Explored and analyzed HR data for approximately 1,200 employees to identify key factors influencing employee attrition.
- Conducted data cleaning, EDA, and insight extraction to highlight relationships between attrition and factors such as job role, satisfaction, and tenure, supporting data-driven retention strategies.

Certificates

Data Scientist in Python – Data camp

Data Analyst in SQL – Data camp

Data Analyst in PowerBI – Data camp

Machine Learning Specialization – DeepLearning.AI