

Moataz Elmesmary

BI Developer | Data Analyst

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Profile

Data Analyst and BI Developer Proficient in **SQL, Power BI, Tableau, Python, Excel, ETL processes, Dashboarding, Microsoft Power Platform (Power Apps, Power Automate), MSBI Stack (SSIS, SSRS, SSAS) and data warehousing** with a strong ability to transform raw data into actionable insights. Created the **most-starred Data Science Roadmap in MENA (Top 3% GitHub repositories)**.

Education

Bachelor's in Computer & Information Sciences (Medical Informatics Dept), *Mansoura University* *Sep 2019 – Jun 2023*

GPA: 3.3 (Very Good) | A+ in Graduation Project

Experience

Business Intelligence & Digital Application Specialist | Egyptian Food Bank *Feb 2025 – Present*

- Analyze large-scale datasets, high-volume transactions and supply chain data to extract actionable insights across organizational programs.
- Design, build, and maintain **Power BI dashboards** to provide real-time visibility into operations, programs, and KPIs.
- Develop internal business applications using **Power Apps** to digitize processes and streamline workflows.
- Automate reporting pipelines and operational processes using **Power Automate**.
- Initiated and led the development of a **Fleet Management System**, a full-featured Power Apps solution covering vehicle booking, manager approvals, SLA enforcement, cost center charging, and movement reporting.

Data & Reporting Analyst | El Ezaby Pharmacies HQ *Jul 2025 – Feb 2026*

- Managed operational datasets across **470+ branches**, ensuring accuracy and consistency across all data sources.
- Analyzed **healthcare** and **insurance** data to monitor claims and utilization trends.
- Built **data models (DWH concepts)** to consolidate snapshots, resignations, and workforce plans, cutting manual processing time by **40%**.
- Developed **Power BI dashboards** to monitor HC, FTE movements, and workforce gaps versus plan, in addition to dashboards analyzing insurance claims and utilization trends **improving overall reporting efficiency by 60%**.
- Identified resignation patterns and root causes to support retention strategies.
- Tracked HR performance KPIs, including turnover and manpower planning efficiency.
- Conducted **sales & financial analysis**, comparing units sold and ticket volumes against manpower levels, with YOY ('24 vs '25) performance evaluation.

Internships

ITI - Business Intelligence Developer | Information Technology Institute *Mar 2025 – Jul 2025*
Intensive Code Camp (ICC) 4+ months ☑

Ideation Bootcamp - Developed a final project for a potential startup | Creativa ☑ *Nov 2022 – Dec 2022*

Computer Vision | ITI Summer Training - 144 hours - Projects ☑ *Jul 2022 – Sep 2022*

Python for Machine Learning & Data Science | CCIC - 72 hours ☑ *Aug 2021 – Oct 2021*

Technical Skills

Data Analysis & BI: Power BI, Tableau, Excel, Google Sheets, Metabase, Data Visualization, DAX

Databases & Querying: SQL, NoSQL (MongoDB)

Power Platform: Power Apps, Power Automate, SharePoint

Programming & Data: Python (Pandas, NumPy, Matplotlib, Seaborn), Data Preprocessing

Data Modeling & ETL: Data Modeling, ETL, MSBI Stack (SSIS, SSRS, SSAS)

Concepts & Fundamentals: Statistics, Probability, Machine Learning Fundamentals, Big Data Fundamentals

Version Control: Git, GitHub

Projects

End-to-End BI Examination System, ITI Graduation Project [🔗](#)

- Implemented end-to-end DWH lifecycle: from **ERD/mapping** and **T-SQL** creation to developing the **ETL** pipeline in **SSIS**.
- Wrote **25+ Stored Procedures**, and built **6** parameterized **SSRS reports** for key operational insights.
- Built full **Power BI** solution, including **data modeling**, advanced **DAX** measures, and 20+ interactive dashboards.

E-commerce Logistics Operations Analysis, Vodafone Egypt Technical Assessment [🔗](#)

- Built a full analytical solution in Power BI, covering data cleaning (Power Query), modeling, and KPI creation (DAX).
- Integrated Orders, Deliveries, and Products into a unified model and designed dashboards to track performance.
- Uncovered critical insights and **recommended** actions to boost on-time delivery by **10–15%**.

Airlines Delay Analysis, Power BI [🔗](#)

- Transformed raw data into an optimized **Star Schema** data model using Power Query (ETL).
- Developed interactive dashboards with over **12 DAX** measures to track KPIs like (Delay Rate, On-Time Performance)
- Uncovered critical insights into delay causes and airline performance.

Egyptian Mobile Store Sales Analysis (Excel) [🔗](#)

- Built an **end-to-end sales analytics solution** analyzing 160M+ EGP across 12+ branches.
- Developed **15+ DAX measures** including time intelligence (MoM Change %, Previous Month Sales).
- Extracted key insights: company market shares and product metrics (COGs, Net Profit, Profit Margin %).

Superstore Sales & Customer Analytics Dashboard (Tableau) [🔗](#)

- Built dynamic dashboards with KPIs, trends, and product/customer insights with drill-down and cross-filtering .
- Used advanced charts: forecast, waterfall, lollipop, donut, map, and more.

Egyptian Grocery Market Basket Analysis, (Association Rules) [🔗](#)

- Extracted frequent itemsets using the **Apriori algorithm**.
- Generated association rules with key metrics: **support**, **confidence**, **lift**, etc.
- Directed Network Graph showing the top 20 strongest rules.

Sales Analytics (Power BI + SQL) [🔗](#)

- Created **SQL views** for dimensions, leveraging DirectQuery and a robust **Star Schema** with role-playing dimensions.
- Implemented **10+** impactful **DAX measures** and advanced **KPIs** to provide sales and operational insights.

A Smart Upper-Exoskeleton for Patients with Paralysis - [Graduation Project], Team Leader [🔗](#)

- Used **YOLOv7** for Object Detection. - Measured distance and object size. Applied **Mask RCNN** for Segmentation and extracting object shape for grasping.
- Applied voice recognition using **Whisper OpenAI**.

Diabetes Prediction, Web App Based on ML [🔗](#)

- Preprocessed data, trained a **Random Forest model** (85% accuracy) and Deployed the model using **Flask**.

Car Prices Prediction [🔗](#)

- Cleaned the dataset and Visualized trends to identify pricing patterns.
- Applied **Classification**, **Regression**, **Hierarchical Clustering** and **K-Means**.

Awards & Competitions

Made In Egypt Competition (Finalist), Smart World Track [🔗](#)

Qualified for the final stage out of 131 teams from different governorates of Egypt.

Sep 2023

Egypt IoT & AI Challenge - (TOP 10) [🔗](#)

One of the best 10 projects out of 200 GP all over Egypt.

Sep 2023

Ibtikar contest - Robotics Field - (1st place), Hosted by Egypt's Ministry of Youth and Sports

Out of 33 projects, we were chosen to represent our university in Ebdaa Contest Stage.

Jan 2023

Scientific Gallery - Technology Field - (1st place), Mansoura University

Participated with our Graduation Project in the 7th edition; awarded a shield certificate.

Dec 2022

The Ideal Student 2022-2023 (1st Place), Mansoura University

Featured in: [Youm7](#) [Al-Bawaba News](#) | [Nahar Egypt](#) [🔗](#)

Dec 2022

Certificates

Power BI Development Track [🔗](#)

ITI - Intensive camp - July 2025

1st Place – Scientific Gallery [🔗](#)

Technology Field - Dec 2022

Data Science Instructor [🔗](#)

CIS Team - Sep 2022

Associate Data Analyst in SQL [🔗](#)

DataCamp 39h track - Apr 2025

Ideation Bootcamp Training [🔗](#)

Creativa – Dec 2022

Data Science & Machine Learning [🔗](#)

CCIC – Oct 2021

Math for Data Science [🔗](#)

Alison Course - Jul 2023

Computer Vision [🔗](#)

ITI - Summer Training - Sep 2022

ITDS-4 Participation [🔗](#)

Mansoura University - Mar 2020

Mentoring & Providing Online Content

Data Science Roadmap - GitHub [🔗](#)

- Created a Reference ranked within the **top 3%** of GitHub repositories **globally** with over **4.3K+** stars on GitHub.
- Mentored over 70 learners in Data Science field.
- Delivered online and offline sessions. - Ran Workshops.

Data Science Roadmap Explanation - YouTube, +20K Views [🔗](#)

Intro To Data Science - YouTube, +15K Views [🔗](#)

Additional Information

Military Service, Soldier in the Air Forces (Future Of Egypt)

Jan 2024 – Mar 2025

Completed As a Contract **Data Analyst,**

I handled and analyzed large volumes of financial and contractual data related to military assets, including lands, farms, buildings, and lease agreements