Moataz Mahdy Elmesmary

BI Developer - Data Analyst

✉ moataz.mesmary@gmail.com 📞 +201000033506 in moatazelmesmary 🔗 Portfolio ⬡ Moataz-Elmesmary

📍 Cairo, Egypt 🚩 Open to relocation 🛡 Military Service: Completed

PROFILE

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

EDUCATION

Bachelor's in Computer & Information Sciences (Medical Informatics Dept),   09/2019 – 06/2023
Mansoura University
GPA: 3.3 (Very Good) | **A+** in Graduation Project

EXPERIENCE & INTERNSHIPS

ITI - Business Intelligence Developer, *Information Technology Institute +4 months* ⧉   03/2025 – present

Military Service (Contract Data Analyst), *Air-Forces - Future Of Egypt*   03/2024 – 03/2025

Computer Vision, *ITI - 144 hours - Projects* ⧉   07/2022 – 09/2022

Python for Machine Learning & Data Science, *CCIC - 72 hours* ⧉   08/2021 – 10/2021

Ideation Bootcamp - Developed a final project for a potential startup, *Creativa-36h* ⧉   11/2022 – 12/2022

PROJECTS

Superstore Sales & Customer Analytics Dashboard (Tableau) ⧉
- Built dynamic dashboards with KPIs, trends, and product/customer insights.
- Used advanced charts: forecast, waterfall, lollipop, donut, map, and more.
- Fully linked and story-driven dashboard experience, with drill-down and cross-filtering capabilities.

Egyptian Mobile Store Sales Analysis ⧉
- 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) and product performance metrics (Percent4G, Profit Margin %).
- **Uncovered key business insights**: Identified 34.8% market share for Samsung, Q4 as peak sales season (16.2M EGP), and 6.4% average profit margin.

PowerBI project (Sales Company) ⧉
- Prepared data, transformed raw data into a clean, structured format.
- Built dynamic, interactive dashboards, Focused on user experience providing real-time visual representation.
- Provided actionable insights for decision-makers, enabling them to track performance across lots of features.

Egyptian Grocery Market Basket Analysis, *(Association Rules)* ⧉
- Extracted frequent itemsets using the **Apriori algorithm**.
- Generate association rules with key metrics: **support**, **confidence**, **lift**, etc.
- Directed Network Graph showing the top 20 strongest rules.

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 getting the object shape for grasping.
- Applied voice recognition using **Whisper OpenAI**.

Diabetes Prediction, *Web App Based on ML* ⧉
- Preprocessed data and trained a **Random Forest model** (85% accuracy).
- Deployed the model using **Flask** for real-time predictions.

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

Signature Restoration, *Matlab* ⧉
- Used Image processing techniques and removed gaussian noise, salt and pepper and fixed the colored signatures.

Breast Cancer Detection Using Perceptron and SLP ⧉
- Built a Single-Layer Perceptron model for breast cancer classification, achieving 95% accuracy.
- Optimized training performance and visualized weight convergence across epochs.

SKILLS

SQL | **Power BI** | **Excel** | **Tableau** | **DAX** | **Statistics** | **Probability** | **Data Visualization** | **GIT** | **GitHub** |
Data Preprocessing | **Python** — (Pandas - Numpy - Matplotlib - Seaborn) | **NoSQL-MongoDB** | **Data Modelling** |
Machine Learning Fundamentals | **Big Data Fundamentals** | **ETL** | **MSBI Stack (SSIS, SSRS, SSAS)**

AWARDS

The Ideal Student 2022-2023 (1st Place), *Mansoura University* ⬀   12/2022

Scientific Gallery "Technology Field" - (1st place), *Mansoura University*   12/2022
Participated with our Graduation Project in The Scientific Gallery- 7th edition. and we took a
shield certificate due to achieving the first place.

Ibtikar contest - "Robotics Field" - (1st place)   01/2023
Out of 33 projects, we were chosen to represent our university in Ebdaa Contest Stage which is
presented by the Ministry of Youth and Sports in Egypt.

Egypt IoT & AI Challenge - (TOP 10) ⬀   09/2023
One of the best 10 projects out of 200 GP all over Egypt.

Made In Egypt Competition (Finalist), *Smart World Track* ⬀   09/2023
Qualified for the final stage out of 131 teams from different governorates of Egypt.

CERTIFICATES

Data Science & Machine Learning ⬀   **Computer Vision** ⬀   **Associate Data Analyst in SQL** ⬀
CCIC (Summer Training) – 2021   ITI (Summer Training) - 2022   DataCamp 39h track - 2025

Math for Data Science ⬀   **Ideation Camp Training** ⬀   **1St Place – Scientific Gallery** ⬀
Alison Course - 2024   Creativa – 2023   Technology Field - 2022

Data Science Instructor ⬀   **ITDS-4 Participation** ⬀   **Python Programming**
CIS Team - 2022   Mansoura University - 2020   Udacity - Mahara Tech - 2019

MENTORING - PROVIDING ONLINE CONTENT

Data Science Roadmap - GitHub ⬀
- Created a Reference ranked within the **top 3%** of GitHub repositories **globally** with over **3.7K+** stars on GitHub.
- Mentored over 70 learners in Data Science field.
- Made online and offline sessions. - Ran Workshops.

Data Science Roadmap Explanation - Youtube, *+17K Views* ⬀

Intro To Data Science - Youtube, *+13K Views* ⬀

INTERPERSONAL SKILLS

- Communication Skills   - Creative Thinking   - Attention to Detail   - Presentation
- Team Working   - Time Management   - Multi-Tasking   - Leadership

STUDENT & VOLUNTEERING ACTIVITIES

CIS Team
- HR Member *2020*   - Media Innovator 2021   - Data Science Squad Instructor *2022*

Student Union
- Families Committee Member *2020*   - Sports Committee Head *2021*   - Scientific Committee Head *2023*

Students For Egypt
- Sports Committee Member *2020*   - Head Of Sports Committee *2021*   - Vice Leader *2022*

Osbat Elkheir
- HR Committee Member *2016*   - Treasury Committee Head *2018*

LANGUAGES

Arabic   **English**   **French**
Native   Proficient in Speaking and writing   Beginner