Moataz Elmesmary *BI Developer - Data Analyst*

✉ moataz.mesmary@gmail.com   📞 +201000033506   in moatazelmesmary   ○ Moataz-Elmesmary

🛡 Military Service: Completed   📍 Alexandria, Egypt   🚩 Open to relocatation   📅 09/09/1999

🪪 PROFILE

BI Developer (~~ITI graduate~~). Proficient in **SQL, Power BI, Tableau, Python, Excel, ETL processes, 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 ↗
- Developed a machine learning model achieving **95%** accuracy in breast cancer classification.
- Optimized the perceptron and achieved the highest accuracy at epoch X.
- Preprocessed the data and Visualized weight changes and accuracy over epochs to track model convergence.

♟ 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**

🏅 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