Moataz Elmesmary

BI Developer - Data Analyst

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PROFILE

Data Analyst | BI Developer Proficient in **SQL, Power BI, Tableau, Python, Excel, ETL processes, Dashboarding, 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),   Sep 2019 – Jun 2023
Mansoura University
GPA: 3.3 (Very Good) | **A+** in Graduation Project

EXPERIENCE & INTERNSHIPS

ITI - Business Intelligence Developer,   Mar 2025 – present
Information Technology Institute - Intensive Code Camp (ICC) 4+ months ⧉

Military Service (Contract Data Analyst), *Soldier in the Air Forces (Future Of Egypt)*   Mar 2024 – Mar 2025

Ideation Bootcamp - Developed a final project for a potential startup, *Creativa-36h* ⧉   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

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).
- Extracted key insights: company market shares and product metrics (COGs, Net Profit, 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**.
- Generated 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 extracting 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.

TECHNICAL 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 & COMPETITIONS

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

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

Ibtikar contest - Robotics Field - (1st place)   Jan 2023
Out of 33 projects, we were chosen to represent our university in Ebdaa Contest Stage,
hosted by Egypt's Ministry of Youth and Sports.

Scientific Gallery - Technology Field - (1st place), *Mansoura University*   Dec 2022
Participated with our Graduation Project in the 7th edition; awarded a shield certificate.

The Ideal Student 2022-2023 (1st Place), *Mansoura University*   Dec 2022
Featured in: Youm7 ⧉ │ Al-Bawaba News ⧉ │ Nahar Egypt ⧉

CERTIFICATES

Associate Data Analyst in SQL ⧉ DataCamp 39h track - Apr 2025	**Math for Data Science** ⧉ Alison Course - Jul 2023	**1St Place – Scientific Gallery** ⧉ Technology Field - Dec 2022
Ideation Bootcamp Training ⧉ Creativa – Dec 2022	**Computer Vision** ⧉ ITI - Summer Training - Sep 2022	**Data Science Instructor** ⧉ CIS Team - Sep 2022
Data Science & Machine Learning ⧉ CCIC – Oct 2021	**ITDS-4 Participation** ⧉ Mansoura University - Mar 2020	**Python Programming** 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 **3.8K+** 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

ADDITIONAL INFORMATION

Military Service, *Soldier (Air Forces)*   Jan 2024 – Mar 2025
Completed
- Contract **Data Analyst** & IT Help Desk