

# Moataz Elmesmary

## BI Developer - Data Analyst

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🌐 linkedin.com/in/moatazelmesmary 🎮 Moataz-Elmesmary

### 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

**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

**Ideation Bootcamp - Developed a final project for a potential startup, Creativa-36h** ✍ Nov 2022 – Dec 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) .
- 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**.
- 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* [🔗](#) Dec 2022
- Scientific Gallery - Technology Field - (1st place)**, *Mansoura University* Dec 2022  
Participated with our Graduation Project in the 7th edition; awarded a shield certificate.
- 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.
- Egypt IoT & AI Challenge - (TOP 10)** [🔗](#) Sep 2023  
One of the best 10 projects out of 200 GP all over Egypt.
- Made In Egypt Competition (Finalist)**, *Smart World Track* [🔗](#) Sep 2023  
Qualified for the final stage out of 131 teams from different governorates of Egypt.

## CERTIFICATES

- |   |   |   |
|---|---|---|
| <b>Data Science &amp; Machine Learning</b> <a href="#">🔗</a><br>CCIC (Summer Training) – 2021 | <b>Computer Vision</b> <a href="#">🔗</a><br>ITI (Summer Training) - 2022    | <b>Associate Data Analyst in SQL</b> <a href="#">🔗</a><br>DataCamp 39h track - 2025 |
| <b>Math for Data Science</b> <a href="#">🔗</a><br>Alison Course - 2024                        | <b>Ideation Camp Training</b> <a href="#">🔗</a><br>Creativa – 2023          | <b>1St Place – Scientific Gallery</b> <a href="#">🔗</a><br>Technology Field - 2022  |
| <b>Data Science Instructor</b> <a href="#">🔗</a><br>CIS Team - 2022                           | <b>ITDS-4 Participation</b> <a href="#">🔗</a><br>Mansoura University - 2020 | <b>Python Programming</b><br>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

- |                         |  |                           |
|-------------------------|--|---------------------------|
| <b>Arabic</b><br>Native | <b>English</b><br>Proficient in Speaking and writing | <b>French</b><br>Beginner |
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## ADDITIONAL INFORMATION

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