

Hassan Abdel Razek Al-Saeed

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Objective

Results-driven Data Analyst with a proven ability to translate complex datasets into actionable business insights. Highly skilled in developing end-to-end Power BI dashboards, building relational data models, and optimizing SQL queries to analyze performance. Seeking to leverage expertise in data analysis and visualization to help a data-driven team make smarter, faster decisions.

Education

B.Sc. in Electronics & Communications Engineering | Delta Higher Institute for Engineering & Technology (Expected 2026)
GPA: 3.63/4.0

Work Experience

Data Analyst | Esgal Company - Startup

May 2025 (1 month)

- Analyzed sales trends from a clinic dataset, identifying March as the peak sales month.
- Identified Port Said as the top-performing branch by total sales.
- Delivered a report with recommendations to boost off-peak sales by replicating successful promotion strategies in other months.

Data Science Trainee | Digital Egypt Pioneers Initiative (DEPI) - MCIT

Oct 2024 – May 2025 (8 months) | Remote

- Gained 8 months of hands-on experience in AI and Data Science through an intensive scholarship by the Egyptian Ministry of Communications (MCIT).
- Created interactive dashboards in Power BI, enabling faster insights for decision-making.
- Applied Python (Pandas) and SQL to automate data cleaning and reporting processes, improving data accuracy by 30%.

Skills & Expertise

Data Visualization: Power BI (DAX, Data Modeling, Power Query), Matplotlib, Seaborn.

Data Analysis & Mgt: Python (Pandas, NumPy), SQL (SQLite, SQL Server).

Data Processing: Data Cleaning, Data Modeling, Exploratory Data Analysis (EDA).

Tools & Other: Microsoft Excel, Git & GitHub.

Key Data Analysis Projects

Smart Rain Prediction System (Egyptian Ministry of Communications – DEPI)

- Built a complete **machine learning pipeline** using real-world weather data to predict next-day rainfall in Australia. Applied **data preprocessing** techniques: **KNN imputation, encoding, scaling**, and advanced **feature engineering** (e.g., TempDiff, HumidityDiff). Trained and compared multiple models: **Decision Tree, Random Forest**, and **XGBoost** (achieved **~83% accuracy**). Deployed the final **XGBoost model** using **Streamlit**, providing an **interactive web interface**. Led full **team coordination, task management**, and delivered the **technical presentation** and **final report**.
Tech Stack: Python (Pandas, NumPy, Scikit-learn), Streamlit, Trello, Google Colab, GitHub.

Bike Sales & Order Analysis Dashboard (NTI Project)

- Built a 3-page Power BI dashboard (Sales Overview, Store Analysis, Customer Analysis) to track business performance.
- Created a custom calendar table and used DAX measures to identify insights, such as "Baldwin Bikes" being the top-performing store and April being the peak sales month.

Healthcare Data Analysis Dashboard (NTI Project)

- Analyzed a synthetic healthcare dataset using Power BI and Excel to define critical KPIs for hospital management (e.g., Average Length of Stay, Bed Occupancy Rate).
- Identified key operational trends, such as "Diabetes & Arthritis" as the most common medical conditions and "Cigna" as the highest billing insurance provider.

Customer Credit Behaviour Analysis (NTI Final Project)

- Developed an interactive Power BI dashboard to analyze loan repayment performance and default risks for a financial institution.

- Built a relational data model in Power BI connecting 7 cleaned datasets to perform accurate cross-table analysis.
- Identified key risk indicators, finding that behavioral factors (e.g., past late payments) were stronger predictors of default than income.

Fathalla Market Sales Performance Dashboard

- Developed a Power BI dashboard to analyze sales performance using real data from *Fathalla Market*.
- Designed a data model with branch, department, and product dimensions for detailed analysis.
- Built DAX measures to calculate total sales, quantities, and monthly growth rates.
- Visualized key metrics and trends across branches to support business insights and decision-making.

Certificates

AI & Data Science Scholarship | *Digital Egypt Pioneers Initiative (DEPI) - MCIT & IBM* | (2024 - 2025)

Artificial Intelligence Advanced Course | *ITIDA & Ideaspace (Egypt Makes Electronics)* | (2025)

Data Analysis Using Excel | *EYouth (ITIDA Gigs Program)* | (2024)

Data Analysis Awareness | *EYouth* | (2024)

Robotics Programming Course | *Egyptian Engineers Syndicate & Smart Technology*

Certificate of Completion - Freelancing Intermediate

Certificate of Participation - Solution Challenge 2023 DHIET

Activities

Robotics Competition Mentor

- Guided a **student robotics team** in **microcontroller integration and hardware design**, leading to strong competition performance.
- Provided hands-on support in **troubleshooting and testing robotic systems** to ensure efficiency.

Training Sessions with Team I HOW

- Delivered **workshops on Arduino programming and Proteus simulation**, simplifying robotics concepts for students.
- Helped participants apply **theoretical knowledge** to **practical robotics projects**.

Participant – DevFest Mansoura Hackathon 2024 (Jan 2025)

- Competed in a **3-day hackathon**, collaborating on a project to support **beginners in software development**.
- Led the **hardware integration**, ensuring **seamless data collection and transmission** to a custom-built web platform.
- Developed and optimized the **data flow process**, enabling **real-time updates and efficient processing**.
- Enhanced **team collaboration and problem-solving skills** through **brainstorming, debugging, and testing**.

Team Leader – DEPI Rain Prediction Project (SkyCast) Egyptian Ministry of Communications – DEPI

- Supervised a **6-member team** to develop an end-to-end **AI system** for weather forecasting.
- Led all project phases: **data cleaning, EDA, feature engineering, model building, and deployment**.
- Organized team workflow using **Trello**, assigned tasks, and ensured timely delivery.

- Delivered the **capstone presentation** to technical mentors and stakeholders.
- Acted as the main point of contact for **report writing**, **Streamlit app**, and **GitHub documentation**.