

Mahmoud Islam Mahmoud

Data Analyst | Business Intelligence

📍 Minia, Egypt (Open to Remote) — 📞 +20 103 357 2884 — ✉️ mahmoudeslam2028@gmail.com

🌐 [Portfolio](#) — 🐙 github.com/Mahmoud-islamcs — 🔗 linkedin.com/in/mahmoud-islam-analytics

Summary

Data Analyst building full-cycle business intelligence solutions, including SQL, data modeling, and dashboard development on Power BI and Plotly Dash, with added predictive layers using machine learning. Developed 2 professional-level systems using datasets with more than 100K+ records, covering data cleaning, EDA, dashboard design, and executive reporting. Exhibits a solid background in problem-solving, having solved over 1,000+ problems during ICPC training. Looking for a Data Analyst Internship.

Education

Bachelor of Science in Computer Science

Sep 2024 – Jun 2028

Faculty of Computers and Information, Minia University — Minia, Egypt

- **Cumulative Grade:** Very Good
- **Relevant Coursework:** Data Structures & Algorithms (C++), OOP (Java), Database Systems, Probability & Statistics, Discrete Mathematics, Linear Algebra, Software Engineering, Systems Analysis & Design

Projects

E-Commerce Supply Chain & Customer Intelligence Platform

2026

[GitHub](#) · *Power BI · SQL · Python · Streamlit*

- Built an end-to-end BI platform on the Olist e-commerce dataset (100K+ orders, 2016–2018) — data cleaning, RFM segmentation, executive reporting — deployed via an enterprise-grade **Power BI** dashboard with drillthrough analytics.
- Segmented customers with K-Means ($K = 4$) on RFM features, identifying a **"Champions"** segment: 29.8% of customers driving 57.5% of revenue, a key input to the dashboard's retention view.
- Added a predictive layer (delivery-delay classifier, **ROC-AUC 0.774**, plus review-score and revenue-forecasting regressions) deployed through a multi-page **Streamlit** app.

Neuro Digital Analytics — End-to-End BI & ML Analytics Platform

Jul 2026

[GitHub](#) · *Power BI · Plotly Dash · SQL · Python · Streamlit*

- Built a full-lifecycle BI platform on a 5,000-record dataset (99 students) — relational star schema, SQL-based ETL, and EDA — studying how short-form content affects student focus and wellbeing.
- Delivered a 5-page executive **Power BI** dashboard and a 13-page **Plotly Dash** app (KPI cards, segmentation, 12-month trend analysis) as the project's primary stakeholder deliverable for graduation defense.
- Added a predictive layer (Random Forest classifier, **93.8% accuracy**) to flag at-risk behavior segments directly from the dashboard data, deployed via an interactive **Streamlit** app.

Training & Internships

Advanced Data Analytics — Summer Training

Jul 2026 – Aug 2026

National Telecommunication Institute (NTI) · Internship – Remote

- Completed a program covering Advanced Excel, Power BI, Tableau, Python, and EDA, applying ML techniques (clustering, forecasting) to real datasets; scored **94.5%**.
- Delivered Excel and Power BI dashboards plus machine learning models from raw data to business insights.

Data Analyst Specialist Trainee

Nov 2025 – Jul 2026

Digital Egypt Pioneers Initiative (DEPI) – Remote

- Automated data cleaning and aggregation pipelines in Python (Pandas, NumPy, Matplotlib, Seaborn) across multi-source datasets, producing the **Neuro Digital Analytics** graduation project (see Projects).
- Designed executive-ready BI dashboards translating raw data into stakeholder-facing insights.

Machine Learning Intern

Aug 2025 – Sep 2025

National Telecommunication Institute (NTI) – Remote

- Built and evaluated classification models end-to-end (preprocessing, feature engineering, hyperparameter tuning) in Python and Scikit-learn.
- Delivered a final ML classification project, scoring **98%** for technical depth and quality (see Certificates).

Skills

Visualization & BI: Power BI, Tableau, Plotly Dash, Streamlit, Matplotlib, Seaborn, Excel (Pivot Tables, Advanced Charts)

Data Analysis & ML: Pandas, NumPy, Scikit-learn, XGBoost, Random Forest, Logistic Regression, Feature Engineering, EDA, Statistical Analysis, Data Cleaning, SMOTE, SHAP

Languages: Python, SQL, C++, Java

Tools & Platforms: Jupyter Notebook, Git, GitHub, Microsoft SQL Server, VS Code, Streamlit Cloud, Plotly Cloud

Activities & Community

Technical Team Member & AI Training Mentor

Oct 2025 – Present

GDG Minia

- Organized and supported technical workshops, training sessions, and community events focused on software development and emerging technologies.
- Mentored students during AI Training programs, explaining machine learning concepts, model development workflows, and practical AI applications.
- Facilitated knowledge sharing and technical discussions, helping participants strengthen problem-solving and analytical thinking skills.

Certificates & Languages

- **DEPI (Digital Egypt Pioneers Initiative):** Data Analyst Specialist Certificate (Nov 2025 – Jul 2026)
- **DEPI — Business English Track (Round 4):** Professional workplace communication, SYE English Community
- **NTI (National Telecommunication Institute):** Machine Learning Summer Training (120 Hours) — Score: 98%
- **NTI (National Telecommunication Institute):** Advanced Data Analytics Summer Training (120 Hours) — Score: 94.5%

[🔗 All Certificates — Drive](#)

Languages: Arabic — English