Abdallah Tarek Data Analyst | BI Analyst

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https://abdallahportfolio-phi-ten.vercel.app| Military service: Exempted

Professional Summary

Data Analyst who owns the whole path from **raw data** to **business decision**. I build **Databricks** and **PySpark** pipelines, automate **data-quality checks** with **n8n**, analyze in **SQL**, and deliver **Power BI dashboards** that teams can act on. I keep my skills current with the tools companies use, which is why I added **Databrick**s and workflow **automation** to my **SQL** and **Power BI** work: one trusted model **from 5 messy sources**, **884K+ records** checked automatically, and recommendations backed by a 90-day plan. A former coding instructor for 60+ students, I explain findings clearly to non-technical teams. Seeking a Data Analyst or BI role.

Experience

Coding instructor, *iSchool Part-time* 07/2026 – 09/2026

- Delivered **30+ programming and technology sessions** to **60+ students** across 6 cohorts.
- Explained technical concepts through hands-on exercises and project-based learning.
- Guided student teams through programming projects, supporting problem-solving and practical application of technical concepts.

Data Analyst Trainee, *DEPI* 07/2025 – 12/2025

- Applied **SQL**, **Python**, **Power BI**, and **Tableau** in hands-on data analytics projects covering **data cleaning, validation, transformation, and visualization.**
- Analyzed healthcare datasets covering clinics, doctors, patients, and revenue to identify performance patterns and potential **revenue improvement** opportunities.
- Built interactive Power BI reports using Power Query, **DAX**, and **data modeling** to monitor KPIs and communicate analytical findings.

Education

BSc in Computer Science, *Modern Academy* 2022 – 2026 | Cairo, Egypt

- Grade: **Very good**
- Graduation project: **A+**

Projects

Customer360 Analytics & Automation Platform, *Databricks | PySpark | SQL | Power BI | n8n*

- Integrated 5 data sources into a unified Customer 360 data model using **Databricks, PySpark, and SQL**, organized into **3 fact tables** and **4 dimension tables.**
- **Cleaned and validated** 300K+ order records, identifying 1,734 duplicate customer IDs and 1,040 missing email addresses.
- Applied **validation** checks that flagged 11,163 orders for customer-related data issues; documented the checks to support investigation and **data quality improvement**.
- **Automated** daily data quality checks across **7 Gold-layer tables** covering 884K+ records using n8n, with issue classification and audit logging in Google Sheets.
- Built 3 **Power BI dashboards** tracking revenue, orders, customer growth, revenue by category and payment method, and support KPIs (resolution rate, resolution time); configured **Incremental Refresh** and used **Performance Analyzer** to inspect DAX and visual performance. Developed 4 data-driven recommendations with a **90-day action plan.**

Uber Business Intelligence Report, *SQL | Business Analysis | KPI Reporting*

- Analyzed 20,000 trip records across 4 cities using SQL **(joins, CTEs, window functions)** to evaluate revenue, cancellations, surge pricing, rider behavior, and driver performance.
- Identified a **14.8% cancellation** rate and segmented riders by spend: VIP riders **(22% of riders)** generated **75%** of total revenue **($454,579 vs $150,011)**, and surge trips were **13.1%** of completed trips but **25.9%** of revenue.
- Investigated potential revenue leakage estimated at $106K and developed 4 **business recommendations** covering rider retention, surge-zone coverage, wait times, and driver allocation.
- Estimated a potential revenue opportunity of **$40K–$60K** over 30 months based on project assumptions and proposed improvement scenarios.

WWI Sales Performance Analysis, *Power BI | DAX | Power Query*

- Built a 3-page Power BI report (Executive Overview, Customer & Salesperson, Sales & Profit) covering **$19.88M** revenue, **$9.92M** profit (**49.9%** margin) and **8.2K** orders.
- Analyzed revenue, profit and margin together by customer, salesperson and product, identifying loss-making products with losses up to ~**$9K**.
- Found that **34.7%** of orders **($6.77M**) were linked to unknown customers and built a reference table to isolate them; flagged that 2016 covers only January–May to avoid a false year-over-year decline.

Telecom Customer Churn Analysis, Power BI | Power Query | Data Cleaning

- Cleaned and analyzed **6,687** customer records using Power Query and Power BI to investigate churn patterns across contract type, payment method, geography, and usage behavior.
- Conducted exploratory analysis and data validation to identify churn patterns and gaps in churn-reason data.

- Developed retention recommendations, including targeted outreach, flexible plans, and personalized offers for potentially high-risk customer segments.

Football Scouting System — Graduation Project, *Python | Power BI | Excel | Machine Learning*

- Aggregated and standardized 4,000+ football player records across 5 seasons and developed 20+ performance KPIs to support a machine learning-based scouting pipeline.
- Built 3 interactive Power BI dashboards for player analysis and comparison, extended to 195+ countries across 10 global indicators.

Technical Skills

Analysis & Reporting: KPI Analysis, Revenue Analysis, Profitability Analysis, Customer Segmentation, Churn Analysis, Data Cleaning, Data Validation, Data Reconciliation, Exploratory Data Analysis (EDA)

SQL: SQL Server (T-SQL), Joins, Aggregations, CTEs, Window Functions
BI & Visualization: Power BI, DAX, Power Query, Data Modeling (Star Schema), Dashboard Development, Incremental Refresh, Performance Analyzer, Tableau
Excel: PivotTables, XLOOKUP/VLOOKUP, Data Cleaning, Reporting
Data Engineering & Automation: Databricks, PySpark, Delta Lake, ETL Pipelines, n8n
Python: Pandas, NumPy, Matplotlib, Scikit-learn
Tools: Git, GitHub, Jupyter Notebook, VS Code
Currently Learning: Cohort Analysis, Funnel Analysis, Forecasting, Statistics, Power BI Service (RLS)

Courses & Certifications

DataCamp, ***SQL Analyst Track***

DataCamp, ***Power BI Analyst Track***

Training & Professional Development

- **Machine Learning Training — IT Shark**
- **AI for Data Analysis — Orange Digital Center / Digital Hub**
- **Data Analysis Training — Digitera / EraaSoft**
- **Tech for Non-Techies — ICareer**