

MAHMOUD ELMAHDY

Data Analyst | BI Developer | Process Analytics Specialist

Alexandria, Egypt (Open to Relocate) | +20 111 078 2859 | mahmoud.ilmahdy1@gmail.com | GitHub: <https://github.com/MahmoudElMahdy>

LinkedIn: <https://www.linkedin.com/in/mahmoud-il-mahdy> | Portfolio: <https://mahmoud-elmahdy.vercel.app/>

Data Analyst & BI Developer with 3+ years of experience constructing 120+ analytics projects for 30+ international clients. Specialized in Power BI, SQL, and Excel automation — compressed reporting cycles from 10 days to 1 day and reduced operational costs by 20% for SGS Saudi Arabia. Trilingual in Arabic, English, and German. Seeking a full-time role in Egypt, Saudi Arabia, or remotely.

TECHNICAL SKILLS

BI & Visualization: Power BI, DAX, Excel (VBA, PivotTables), Tableau, Power Query

Data Engineering: SQL Server, PostgreSQL, MySQL, ETL, Medallion Architecture, Star Schema, Data Modeling

Analytics & Automation: Python (Pandas, NumPy, Pandas Profiling), Process Optimization, root cause analysis, KPI Development, LLMs

Languages: Arabic (Native) · English (Fluent) · German (Fluent)

KEY ACHIEVEMENTS

- ▶ 120+ Projects · 30+ international clients
- ▶ 20%+ reduction in SGS flight delay costs
- ▶ Reporting: 10 days → 1 day
- ▶ 50% reduction in manual processing time
- ▶ 20+ verified 5-star client reviews

PROFESSIONAL EXPERIENCE

Data Analyst & BI Consultant · [SGS – Saudi Ground Services](#) · [Saudi Arabia \(Remote\)](#) *Mar 2022 – May 2023*

- ▶ Analyzed passenger load, boarding, and delay data across 3 daily shifts during Hajj season — enabling strategic staff reallocation without new hiring costs.
- ▶ Identified operational bottlenecks through statistical modeling, reducing passenger wait times and cutting flight delay costs by 20%+ per shift.
- ▶ Built a multi-module Excel KPI dashboard and PowerPoint presentation for real-time ground operations monitoring; automated reporting pipeline from 10 days to 1 day.
- ▶ Facilitated stakeholder workshops to translate complex data into actionable process redesigns and sustainable operating models.

Data Analyst – Freelance · [Khamsat & Mostaqil](#) · [Egypt / International](#) *Sep 2021 – Present*

- ▶ Designed 120+ end-to-end analytics projects for 30+ clients: dashboards, ETL pipelines, KPI reporting, and process automation across multiple industries.
- ▶ Built 70+ Power BI & Excel dashboards; engineered VBA/Power Query automation that cut manual processing time by 50% across client workflows.
- ▶ Conducted root cause analysis on operational data, translating complex findings into clear recommendations and data-driven process redesigns.
- ▶ Maintained 20+ verified 5-star reviews reflecting consistent delivery quality, clear communication, and business-focused outcomes.

KEY PROJECTS

Enterprise Data Warehouse & Analytics Solution — *SQL Server · ETL · Medallion Architecture*

- ▶ Architected a scalable SQL Server data warehouse (Bronze/Silver/Gold), created ETL pipelines with quality checks, and built analytics covering customer behavior and sales trends.
- ▶ Established end-to-end ETL pipelines with rigorous quality checks, and built an analytics roadmap covering customer behavior, cumulative trends, and segmentation.

Tools: SQL Server | ETL | Star Schema | Advanced Analytics | Window Functions | CTEs → [View on GitHub](#)

Excel Automation Consultant · [SAR – Saudi Arabia Railways](#) · [Saudi Arabia \(Remote\)](#) *Feb 2025 – Jun 2025*

- ▶ Devised a 4-system Excel automation suite for SAR's engineering and operations teams, replacing fully manual workflows with structured, error-proof data entry via custom VBA forms with validated dropdowns.
- ▶ Built an ECR management system with Gantt chart timeline, automated overdue alerts with color-coded rows, and one-click PDF daily dashboard for management reporting — eliminating formatting delays and missed project deadlines.
- ▶ Developed additional systems for RCA tracking, asset task management, and attendance — centralizing cross-functional operational data into auditable, structured records across 4 integrated tools.

EDUCATION & CERTIFICATIONS

Bachelor of Management Information Systems · [Alexandria University](#) *2018 – 2022*

Certifications: Advanced Data Analysis Nanodegree (Udacity) | Machine Learning Nanodegree (Udacity) | McKinsey Forward Program | Advanced SQL & Excel (365 Data Science) | Power BI Reporting (365 Data Science)

Currently pursuing: *Google Advanced Data Analytics* | *Power BI Data Analyst – Microsoft* | *ML Specialization – Stanford (Coursera)*