

MAHMOUD ALI - DATA ANALYST

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Results-driven Data Analyst with a foundation in aeronautical engineering and an 11-year operational background spanning FMCG manufacturing and military aviation maintenance. Proven ability to extract, clean, and translate dense datasets into actionable business intelligence using SQL and Tableau. Passionate about root-cause investigation, and technical storytelling to drive strategic decision-making and optimize organizational efficiency. Proficient in Excel, SQL, Tableau, & Python.

PROFESSIONAL EXPERIENCE

Powertrain Maintenance Lead

SEPTEMBER 2020 – Present

US Army

NY

- Analyzed complex powertrain performance data and over 1,200 maintenance logs, identifying recurring issues to reduce aircraft downtime by 18%.
- Led daily operations and mentored a team of 12 personnel, leveraging data-driven insights to optimize maintenance workflows and increase operational efficiency by 22%.
- Conducted rigorous trend analysis and root cause investigations, improving equipment reliability and compliance across 3 global locations.

Production Planning Engineer

SEPTEMBER 2016 – October 2019

Gandour

Jeddah, KSA

- Analyzed safety and operational data across 6 high-volume production lines, implementing risk mitigation strategies that reduced workplace hazards by 25%.
- Established KPI tracking systems and mentored 2 junior engineers, fostering professional development and improving overall team output by 15%.
- Designed and automated weekly production KPI reports for 10+ stakeholders via presentations, reducing reporting time by 30% while significantly improving data accuracy.

Production Engineer

DECEMBER 2014 – August 2016

Edita

Cairo, EGY

- Evaluated production metrics across 3 daily shifts to generate actionable insights, optimizing efficiency and reducing operational downtime by 12%.
 - Partnered with cross-functional maintenance teams to implement data-backed preventative measures, decreasing production disruptions by 20%.
 - Tracked daily waste and scrap rates, driving root-cause analysis initiatives that reduced material waste by 14% and resulted in an estimated \$85,000 in annualized cost savings.
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EDUCATION

Bachelor of Aeronautical Engineering

CAIRO, EGYPT

Cairo University

2013

CompTIA Data+ Certification

IN PROGRESS

SKILLS & PROJECTS

Skills: Data Analysis, Excel, SQL, Tableau, Power BI, Python, R, Data Visualization, Dashboards, Stats

Excel Project: Analyzed 2000+ customers across 6 different marketing campaigns.

Tableau Project: Created dashboard evaluating 1.8k schools performance across 100's of features.

SQL Project: Data mined 1.2M real bank transactions to find financial outliers, patterns, & trends.

MySQL Project: Created report highlighting operational differences in 101k healthcare patients.