

Mohamed Alemam

Data Analytics Engineer | Power BI Certified | Instructor

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🐙 github.com/mohamedalemam 🏆 Completed 📁 Portfolio

PROFILE

Data Engineer with a bachelor's degree in computer science and two years of hands-on experience in data engineering, data analysis, and data visualization to support data-driven business decisions. Skilled in building and optimizing data pipelines, extracting insights, and developing analytical dashboards using tools such as SQL, Python, PySpark, Excel, and Power BI. Additionally, possess over three years of experience as a Data Analysis Instructor, delivering training programs and simplifying complex data concepts for learners.

EDUCATION

Bachelor of Computer Science El-Shorouk Academy

09/2019 – 05/2023 | Cairo, Egypt

Graduation Project: My graduation project is about smart home automation, where you can control household devices through voice commands, hand gestures, or a mobile app. We developed an algorithm capable of accurately reading hand signals and controlling home appliances.

Grade: Good **Graduation Project Grade:** Excellent

PROFESSIONAL EXPERIENCE

Senior Data Analysis Instructor EYouth, Part Time

12/2025 – Present | Cairo, Egypt

Leading the design and delivery of the Data Analysis Diploma within the Digital Egypt Pioneers Initiative (DEPI), including curriculum development, practical training, and mentoring participants to build market-ready analytical and data-driven decision-making skills.

Data Engineer Gentaa, Full Time

07/2025 – Present | Cairo, Egypt

I am responsible for building and maintaining scalable data pipelines and big data solutions using PySpark, SQL Server, and Fabric. My work focuses on designing and optimizing semantic models that enable advanced analytics and reporting, while ensuring high performance and reliability.

Senior Data Analysis Instructor AMIT Learning, Part Time

06/2025 – 10/2025 | Cairo, Egypt

Delivering comprehensive Data Analysis programs across DEPI and other initiatives, designing and teaching Excel, SQL, Power BI, and Python with a strong focus on real-world applications, hands-on training, mentorship, and project-based learning to build job-ready analytical skills.

Data Analyst Etqan Consultancy, Full Time

01/2025 – 07/2025 | Cairo, Egypt

Experienced in real estate analytics, financial modeling, and market trend analysis, with a strong focus on delivering data-driven solutions that help real estate developers make informed investment and development decisions.

Data Analysis Instructor Mechanism AI, Part Time

08/2023 – 01/2025 | Cairo, Egypt

Led the Data Analysis Diploma Program, delivering courses in Excel, Databases, Power BI, SSIS, and Python to over 40 students across three cohorts, with a strong focus on practical, project-based learning and real-world application.

CERTIFICATIONS & COURSES

Microsoft Certified: Power BI Data Analyst Associate (PL-300)

This milestone marks a significant step in my data analytics journey, reinforcing my skills in data visualization, modeling, and transforming data into meaningful insights.

Data Analyst in Power BI DataCamp

08/2024 – 11/2024

Successfully completed 17 courses (48 hours) focused on essential data skills for data professionals. Gained expertise in data import, cleaning, manipulation, visualization in Power BI, data analysis best practices, and explored Power BI functionalities like data modeling, DAX, and Power Query through hands-on exercises.

Associate Data Engineer in SQL

09/2024 – 11/2024

DataCamp

I have successfully completed the 29-hour Associate Data Engineer with SQL. This track has equipped me with essential skills in SQL database management and data handling.

Python Data Analysis Diploma

02/2024 – 03/2024

Udemy

Completed 41 hours of on-demand video content, covering topics such as Intro to Data Science, Statistics, Numpy, Pandas, Matplotlib, and Web Scraping.

Big Data Scholarship

08/2022 – 09/2022 | Nasr City, Egypt

National Telecommunication Institute (NTI)

Throughout the scholarship, we covered a diverse range of courses, including Linux, SQL, Python, HDFS, MapReduce, Spark, HBase, Hive, Streaming, Flink, Loader, Flume, Kafka, and Zookeeper. The entire program required 140 hours to complete.

BI Development Scholarship

07/2021 – 08/2021

Information Technology Institute (ITI)

I have completed a Business Intelligence Development scholarship program with a duration of 150 hours. During the program, I studied courses like Database, SQL Server, Data Mining, Business Intelligence, Power BI, XML, and Tableau.

COMPETITIONS

Google Solution Challenge Egypt

26/02/2023

Participated in the Google Solution Challenge with my graduation project, securing ninth place. Our project focused on addressing the Sustainable Development Goals using Google technology.

Vodafone's Ai Assistive Tools Hackathon

29/01/2023

Contributed to the development of the 'Smart Vision' accessibility app for visually impaired users, delivering features such as OCR, object detection, cash reading, and QR scanning, and achieving fourth place in a national competition.

ACPC

16/08/2022

Participated in the ACPC regional qualifier for the International Collegiate Programming Contest (ICPC), strengthening advanced problem-solving and competitive programming skills

STUDENT ACTIVITIES

GDSC El-Shorouk Academy

09/2022 – 05/2023 | Cairo, Egypt

AI Team Leader

I successfully oversaw several workshops on artificial intelligence. Additionally, I delivered a machine learning course to a diverse group of students, fostering an environment of knowledge sharing and teamwork.

IEEE El-Shorouk Academy

10/2021 – 06/2022 | Cairo, Egypt

Technical Team Member

I introduced a Python for Data Analysis course and taught over 30 students at the university. Our projects included COVID-19 analysis, supermarket sales analysis, Madrid real estate analysis, and Olympic analysis.

SKILLS

Technical Skills

SQL, Python, Data Analytics, Business intelligence, Microsoft Power BI, Data Visualization, Microsoft SQL Server, (SSIS) SQL Server Integration Services, (SSAS) SQL Server Analysis Services, (SSRS) SQL Server Reporting Service, Databases, Data Warehouse (DWH), Extract Transform Load (ETL), Data Science, Data Engineering, Microsoft (Excel, PowerPoint), familiar with Big Data Tools.

Soft Skills

- Strong Analytical and Problem-Solving Skills
- Effective Communication and Presentation Skills
- Teamwork and Collaboration
- Time Management and Prioritization
- Adaptability and Flexibility
- Initiative and Self-Motivation
- Leadership and Mentorship
- Positive Attitude and Willingness to Learn

Language Skills

- **Arabic:** Mother Tongue
- **English:** Very Good