Youssef Gerges Melad
Data engineer
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OBJECTIVE

Data Engineer with hands-on experience building end-to-end data projects. Skilled in designing data pipelines, performing data cleansing with Pandas, and utilizing APIs for data extraction. Familiar with cloud basics (AWS or Azure) and data warehousing concepts

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EDUCATION

Bachelor of computer science , thebes academy | maadi -cairo (2023-2027)

Major: Artificial Intelligence (AI)

INTERNSHIPS

DATA ENGINEER TRAINEE – DIGITAL EGYPT PIONEERS INITIATIVE   (NOV 2025 - PRESENT)

- Learned data engineering fundamentals including data modeling, ETL pipelines, and data warehousing concepts.
- Worked with SQL and Python for data extraction, transformation, and analysis.
- Gained hands-on experience with relational databases and data preprocessing techniques.
- Understood big data concepts and the role of data engineers in building scalable data systems.

NVIDIA DLI SUMMER TRAINING PROGRAM – GENERATIVE AI (ITI)   (NOV 2025 - DES 2025)

- Completed foundational training in Python programming including data structures, functions, file handling.
- Gained a understanding of Generative AI concepts, real-world use cases, and how Large Language Models (LLMs) can be applied in content creation and intelligent applications.
- Learned how to design and optimize prompts to improve LLM outputs, apply advanced prompting techniques, and integrate RAG concepts to enhance model performance.
- Developed RAG-based AI agents using embeddings and vector databases to enable LLMs to retrieve and reason over external data sources for accurate responses.

COURSES

Understanding Data Engineering –   DataCamp

- Completed foundational training in data engineering concepts including data pipelines, ETL processes, data storage (Data Lakes & Warehouses), batch vs. stream processing, and cloud & parallel computing fundamentals.

Intro to Data Science & Analytics — HP LIFE

- Completed a foundational course covering data-driven decision making, data science fundamentals, AI & machine learning basics, data visualization.

Database Fundamentals — MaharaTech (ITI)

- Completed foundational training in relational databases, SQL queries , database design, normalization, ERD basics, and database management concepts.

Python Fundamentals — MaharaTech (ITI)

- Completed foundational training in Python programming including variables, control flow, data structures, functions, file handling, and basic problem-solving techniques.

Intermediate SQL — DataCamp

- completed training in advanced SQL querying, joins, aggregations, subqueries, and SQL-based data analysis .

TECHNICAL SKILLS

PROGRAMMING SKILLS:

Python (Pandas, NumPy, PySpark) , SQL (Advanced Queries, Joins, Window Functions)

DATA ENGINEERING & BIG DATA :

ETL / ELT Pipeline Development	Apache Spark & PySpark
Hadoop Ecosystem	Data Warehousing Concepts
Data Modeling & Data Architecture	

TOOLS :

Git & GitHub   Docker   Azure Data Services

DATABASES:

Relational Databases: PostgreSQL SQL Server
NoSQL Databases: MongoDB

LANGUAGE SKILLS :

Arabic : native

English: B1