


MUHAMMAD GOMAA

Data Engineer

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 github.com/MOHAMEDGOMAAGODA

PROFILE

Motivated Data Engineer skilled in integrating raw data into structured formats, building ETL pipelines, and developing data architectures for predictive modeling. Passionate about data reliability, quality, and scalable solutions.

Education

Information Technology Institute (ITI) – Suez Canal, Egypt (Data Engineering Track) May 2024–Sep2024

- Hands-on experience with Python, SQL, NoSQL, Data Modeling, ETL, DWH, and cloud tools (Spark, Airflow, Kafka).

Beni Suef University – BSc in Computers & Artificial Intelligence

Sep 2018 –May2022

- **Grade:** Very Good | **Graduation Project:** Excellent

Technical Skills

- **Data Management:** Hadoop, Spark, Airflow, Kafka, MongoDB, Docker
- **Programming:** Python, SQL
- **Machine Learning:** Scikit-learn, Keras, NLP
- **Data Visualization:** Tableau, Seaborn, Matplotlib, Dash

CERTIFICATES

IBM data engineering
professional

IBM data science professional

Aws Data Engineering

Aws Cloud Fundamentals

Structuring Machine Learning
Projects DeepLearning.ai

Data Camp

- Spark
- SQL Queries

Database Fundamentals
MAHARTECH

Aws Academy Cloud
Architecting

PROJECTS

Air Flow ETL

- Spearheaded data wrangling and pipeline development processes, resulting in the successful integration of five diverse datasets which streamlined analysis for predictive modeling efforts aimed at airflow noise reduction
- Utilized DAG (Directed Acyclic Graph) structures and data pipeline concepts

Airfoil noise prediction use Spark

- Developed a machine learning model to predict airflow noise using PySpark
- Focused on data wrangling, pipeline development, and predictive modeling

SpaceX Launch Records Dashboard with dash

- Created an interactive dashboard using Dash to visualize SpaceX airline data
- Applied advanced data visualization techniques.

Terrorism Analysis

- Conducted data analysis and built a visualization interface to derive insights from terrorism-related datasets
- Leveraged data exploration and visualization concepts effectively