

# Elaf Mustafa

## Data Engineer

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### PROFILE

Certified Data Engineer | ITI & CS Graduate | Expertise in SQL, ETL, Data Warehousing, Big Data (Hadoop, Spark), and Cloud Technologies. Skilled in designing and optimizing scalable data pipelines, real-time processing, and analytics solutions.

### EDUCATION

#### Bachelor of science in computers and information

09/2020 – 07/2024 | Alexandria, Egypt

- Faculty of computers and information Kafr-al-sheikh university, computer science department , graduated with honors , GPA : 3.5

### SKILLS

**Data Engineering:** ETL Pipelines, Data Warehousing, Lakehouse Architectures, SSIS, SSAS, Apache Airflow, Talend.

**Data Analysis & Visualization:** Matplotlib, Seaborn, Plotly Express, Power BI

**Programming & Scripting:** Python (OOP, Pandas, NumPy), Bash Scripting

**Databases:** SQL (SSMS, Query Optimization), NoSQL (MongoDB, Aggregation Framework)

**Big Data & Distributed Systems:** Hadoop (HDFS, MapReduce), Apache Spark, Apache Kafka

**Soft Skills:** Teamwork, Communication, Adaptability

**Languages:** Arabic: Native | English: Very good in speaking and writing

### PROJECTS

#### Emergency Call Data Pipeline

- ITI graduation project | 2025 | built a **scalable ETL pipeline** with **Airflow, PySpark, and** integrating **real-time and batch processing** for emergency call analytics. Designed a **DWH model** and Power BI dashboards to enhance response efficiency and resource allocation.

#### Power BI Dashboard – Remote vs On-Site Work (Before & After 2020)

- Created an interactive Power BI dashboard to analyze work trends pre- and post-2020.

#### Gravity books DWH

- Designed a scalable Snowflake data warehouse for Gravity Books, integrating marketing and finance data to streamline processing.

#### Sustainable Future – AI-based Environmental Mobile App,

Graduation Project | 2024 | 1st Place Winner at Egypt's Environmental Olympics (Damietta & Delta Universities)

Built pipelines for AI models predicting energy, weather, and emissions.

### TRAININGS AND INTERNSHIPS

#### Information technology institute (ITI)

11/2024 – 04/2025

- Data engineering training program

#### WE Telecom Egypt

08/2023 – 11/2023

- Technical Training Program