

Hussam Elnemr

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Data Engineer

SUMMARY

Junior Data Engineer with a strong background in AI and data analytics, experienced in building scalable ETL pipelines, real-time processing systems, and automated analytics workflows.

EDUCATION

Kafrelsheikh University

Oct 2021 – Jul 2025

Faculty of Artificial Intelligence (Bachelor of Artificial Intelligence).

GPA: 3.2

RELEVANT EXPERIENCE

Startup Founder [Website.](#)

Jul 2025 - present

Axiora

CTO

- Built and led **Axiora** from concept to launch, aligning product vision with real business needs.
- Applied **Agile principles** to guide a cross-functional team and ensure fast, iterative delivery.
- Bridged the gap between **technical development and business strategy** to create real user value.

Data Engineering Mentor

Oct 2024 - Jun 2025

Microsoft Student Club

Online

- Awarded “**Best Mentor**” for exceptional performance in the program
- Taught **SQL** and guided students in real data engineering projects.
- Mentored students through hands-on work and continuous support

Big Data Training

Sep - Oct 2024

Orange Digital Center

Hybrid

- Worked with **Hadoop** and Hive for large-scale data warehousing.
- Used **Pyspark** libraries like(Stream, MLlib).
- Gained experience with **NoSQL** databases for scalable data storage

Data Analyst Specialist Training

Jun - Oct 2024

Digital Egypt Pioneers Initiative

Hybrid

- Developed interactive **Power BI** dashboards and used **Power Query** for ETL processes.
- Designed and optimized **SQL** queries for data extraction and analysis.
- Utilized **Python** for data analysis, visualization, and automation.

Instructor

Sep 2024 - Apr 2025

Techno Future

OnSite

- My team qualified in FLL and won the Engineering Award
- Taught young students AI basics with Pictoblox.

PROJECTS

LSTM Stream Prediction | PySpark [Github Repo.](#)

Dec 2024

Role: **Data Engineer:**

- Integrated **PySpark Streaming** to enable real-time data processing, inference, and adaptive model updates for continuous time-series forecasting.
- Built a **scalable data pipeline** that transforms streaming inputs, feeds them into an **LSTM** model, and iteratively refines predictions for improved long-term accuracy.

Hive PostgreSQL ETL | Python — SQL [Github Repo.](#)

Sept 2024

- Implemented a Hive data warehouse sorting star schema database into **Hadoop** HDFS.
- Developed an **ETL pipeline** to extract the data from **Hive**, transform, and load it into **PostgreSQL**.
- Built an interactive **Superset** dashboard to analyze and visualize the processed data.

Sakila25 | SQLAlchemy — ETL [Github Repo.](#)

May 2025

- Recreated the classic **Sakila database** with modern, relevant movie data sourced via the **TMDB API**.
- Designed and implemented a **new relational schema**, ensuring normalization and scalability.
- Utilized **Python (Requests, SQLAlchemy)** to extract, transform, and load data into **CSV, MySQL, PostgreSQL, and SQLite**.

AI Data Analysis Platform | Langchain — SQLAlchemy [Github Repo.](#)

Oct 2024 - Jul 2025

Graduation Project A+

Role: **Team Leader:**

- Led the development team and coordinated project milestones and tasks.
- Designed and implemented the relational database schema using **SQLAlchemy**, handling backend operations and data modeling.
- Developed a complete data analysis pipeline powered by **LangChain**, enabling natural language-driven insights and automation.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Java, GO, C++
- **Databases:** MySQL, PostgreSQL, T-SQL, SQLite, MongoDB
- **Data Processing:** PySpark, SQLAlchemy, Pandas, polars
- **Development Tools:** Jupyter Lab, Docker, Terminal, Power BI, GIT.
- **AWS:** S3, Glue, Athena, IAM, VPC, RDS, EC2.

LANGUAGE SKILLS

- **Arabic:** Mother Tongue.
- **English:** B2 (Achieved Level 7 / Level B1.3 on the CERF scale on Berlitz Online Placement Test in English).