

# Hussam Elnemr

Cairo, Egypt

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Data Engineer

## SUMMARY

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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

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**Kafrelsheikh University** Oct 2021 – Jul 2025  
*Faculty of Artificial Intelligence (Bachelor of Artificial Intelligence).* GPA: 3.2

## RELEVANT EXPERIENCE

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**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

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**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

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- **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

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