

# Mohamed Atwan

## DATA ENGINEER

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### Brief About Me

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I am a dedicated Data Engineer with expertise in building and optimizing scalable data pipelines and architectures. Proficient in Python, SQL, Hadoop, and the Azure platform, I excel at transforming raw data into meaningful and actionable insights. With a strong foundation in data modeling, ETL processes, Big Data technologies, and cloud solutions, I am committed to enhancing data infrastructure to support business growth and decision-making.

### Skills & abilities

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- **Data Pipeline Development [ETL - ELT]**
- **Hadoop & Apache Spark**
- **Azure Data Lake**
- **Azure Databricks**
- **Python (Pandas, NumPy, SciPy, SQLite, OOP. ...)**
- **SQL (T-SQL, DQL, DDL, DML)**
- **Azure SQL Database**
- **SSIS, SSRS, SSAS**

### Experience

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#### DEPI | Trainee Data Engineer

2024-July / 2024-Oct

- Mastered SQL for efficient data management and query optimization.
- Developed expertise in designing and implementing scalable data warehouses.
- Gained proficiency in Python programming for data processing and automation.
- Learned data science methodologies and machine learning basics using Python.
- Acquired foundational knowledge of Azure data services and cloud integration.
- Advanced skills in machine learning operations with MLflow and Hugging Face.
- Equipped to design, implement, and optimize data solutions on Azure.

#### Microsoft Learn Student Ambassador | Database Administrator

2023-Sep / 2024 Sep

- Engineered and managed the club's database infrastructure to ensure high performance and data integrity.
- Designed and optimized database schemas, contributing to the efficiency and scalability of data storage.
- Implemented monitoring solutions to track database performance and ensure continuous availability.
- Worked closely with stakeholders to gather requirements and deliver tailored database solutions.
- Provided support and troubleshooting for database issues, minimizing downtime and maintaining operational continuity.
- Shared knowledge and best practices within the Microsoft Learn community to support learning and development.

## Courses

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Database Fundamentals – ITI Mahara Tech	Sep, 2021
Python Programming Basics – ITI Mahara Tech	Oct, 2021
Assessment for Data Analysis and Visualization Foundations – IBM	Oct, 2023
Introduction to Data Analytics – IBM	Oct, 2023
Excel Basics for Data Analysis – IBM	Oct, 2023
Data Visualization and Dashboards with Excel and Cognos – IBM	Oct, 2023
Python for Data Science, AI & Development – IBM	Dec, 2023
Machine Learning Specialization – Stanford University & DeepLearning.AI	Apr, 2024

## Projects

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- 1) **Real-Time Data Pipeline for E-Commerce Analytics**  
**Technologies Used:** Python, Apache Spark, Hadoop, Azure Data Lake, SQL, Airflow, Power BI
- 2) **Cloud-Based Data Warehouse for Financial Reporting**  
**Technologies Used:** Azure Synapse Analytics, SQL, Python (Pandas, NumPy), SSIS, Power BI.
- 3) **Machine Learning Pipeline for Predictive Maintenance**  
**Technologies Used:** Python (SciPy, Scikit-learn), Azure Databricks, SQL, MLflow, Azure Data Lake
- 4) **Optimization of Data Warehousing Processes**  
**Technologies Used:** SQL, Azure SQL Database, SSIS, SSRS, Excel, Python (Pandas, NumPy)
- 5) **Data Integration for Customer Insights Platform**  
**Technologies Used:** Hadoop, Spark, Python, Azure Data Lake Storage Gen2, Azure Synapse Analytics.

## Education

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**Kafr Elsheikh University, Bachelor of Science in Artificial Intelligence** **Graduating in Aug, 2025**  
With Specialized coursework in Machine Learning, Deep Learning, Data Science, and Data Engineering.