Mohamed Atwan

DATA SCIENTIST

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Brief About Me

I am a passionate Junior Data Scientist with a strong background in building and optimizing data models and analytical solutions. Adept in Python, SQL, and Big Data technologies, I excel at extracting insights from complex datasets and delivering actionable results. With expertise in machine learning, statistical analysis, and data visualization, I am committed to leveraging data to drive strategic decision-making and innovation.

Skills & abilities

- **Data Pipeline Development [ETL- ELT]**
- **Hadoop & Apache Spark**
- **Git & Githup & Docker**
- **Python (Pandas, NumPy, SciPy, SQLite, torch, …)**
- **SQL [T-SQL, DQL, DDL, DML]**
- **Machine Learning [Supervised & Unsupervised]**
- **Deep Learning [CNN, RNN, NLP]**
- **Azure Synapse Analytics**
- **Azure SQL Database**
- **SSIS, SSRS, SSAS**
- **Excel For Analysis**
- **Power BI For Reporting**
- **Transformers FineTuning: BERT, GPT …**

Experience

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

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 & DeepLeaning.AI	**Apr, 2024**

Projects

1) **Predictive Modeling for Customer Lifetime Value (CLV)**
   Tools & Technologies: Python (Pandas, NumPy, Scikit-learn), SQL, XGBoost, Power BI

2) **Fraud Detection System for Online Transactions**
   Tools & Technologies: Python (Pandas, NumPy, TensorFlow, Keras), SQL, Apache Spark

3) **Image Classification for Medical Diagnostics**
   Tools & Technologies: Python (TensorFlow, Keras, OpenCV), SQL, Azure ML, Power BI

4) **Sentiment Analysis for Customer Feedback**
   Tools & Technologies: Python (NLTK, Scikit-learn), SQL, Tableau

5) **Time Series Forecasting for Demand**
   Tools & Technologies: Python (Pandas, NumPy, Prophet, Scikit-learn), SQL, Excel

Education

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.