Youssef Bahgat Ahmed

AI & Data Science

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PROFILE

I am a dedicated AI Engineer and Data Scientist with strong expertise in Data Analysis, developing intelligent systems, and optimizing data workflows for impactful, data-driven decision-making. I am proficient in Python (NumPy, Pandas, Matplotlib, Seaborn) and SQL (DDL, DML, DQL), with a proven ability to clean, analyze, visualize, and interpret complex datasets, transforming raw data into actionable insights.I have a solid foundation in T-SQL, data modeling, ETL processes, and machine learning using Scikit-learn and TensorFlow.With additional skills in Excel, Power BI, and Tableau, I create clear dashboards and interactive reports that support advanced analytics, predictive modeling, and data-driven insights aligned with strategic business goals.

PROFESSIONAL EXPERIENCE

Data Analyst Intern, *NTI*   11/2025 – 12/2025
- covering Statistics, Python, ML, Excel, Power BI, and Tableau.   NTI Alexandria
- Gained practical experience in data cleaning, EDA, visualization, and dashboard.
- Developed the ability to make insights to support data-driven decision-making.

Data Engineer Intern, *Microsoft*   07/2024 – 10/2024
- Mastered SQL for efficient data management and query optimization.   DEPI Hybrid
- Developed expertise in designing and implementing scalable data warehouses.
- Gained proficiency in Python programming for data processing.
- Learned data science methodologies and machine learning basics using Python.

Data Science Mentor, *Microsoft Student Club*   11/2025
Excited to start a new journey as a Data Science Mentor at the Microsoft Student   Kafr Elsheikh
Club.A great opportunity to learn, share knowledge, and support students while
working together on practical and impactful data science projects.

EDUCATION

Bachelor of Science in Artificial Intelligence, *Kafr Elsheikh University*   08/2026
With Specialized coursework in Machine Learning, Deep Learning, Data Science, and
Data Engineering, Computer Vision.

SKILLS & ABILITIES

- Python (NumPy, Pandas, Matplotlib, Seaborn)
- Database (SQL server)
- Tableau
- Problem Solving
- Teamwork and collaboration
- Deep Learning (TensorFlow)
- Communication
- Data visualization
- Machine learning (Skit-learn, TensorFlow)
- Power bi
- Excel
- Analytical thinking
- Adaptation
- ETL pipelines & data modeling
- Time Management

PROJECTS

Gold And Currency Analysis
Identify overall gold price direction and currencies. Compare behavior of different karats (24K, 21K, 18K). Analyze Buy vs Sell price gaps. Identify fair pricing and transaction cost stability. Measure volatility and price momentum. Provide insights for investors, traders, and consumers. Identify price trends and high-risk periods.

Sentiment Analysis for Facial expressions, *Technologies Used: Python, Deep Learning, TensorFlow.*
It is designed to predict human emotions based on facial images. the model identifies and classifies sentiments such as happy, sad, angry, and neutral by analyzing facial expressions.

Save my driver, *Technologies Used: cv, python, c*
Built an Al-assisted driver monitoring system using OpenCV and Python for real-time facial landmark detection and drowsiness alerts. Leveraged MediaPipe for eye tracking and integrated Arduino (C) to trigger physical warnings such as LEDs, servo motion, and sound alarms.

Customer Data Management and Analysis,
Technologies Used: Python, Machine Learning, SQL, Data warehouse, Microsoft Azure
This project highlights expertise in data engineering, predictive analytics, and cloud computing, making it ideal for businesses looking to enhance customer engagement and optimize operations.