

YOUSEF MAHMOUD

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Professional Summary

Junior Data Engineer with a strong foundation in Computer Science, AI, and Cloud Computing (AWS). Currently a Data Engineering Trainee at ITI, with hands-on experience in building scalable ETL pipelines (Airflow, Spark), Data Warehousing (Snowflake, dbt), and deploying ML models. Proficient in DevOps tools (Docker) and Agile methodologies. Passionate about transforming raw data into actionable insights using modern data stacks.

Education

Information Technology Institute (ITI)

Minya, Egypt

Data Engineering Trainee

June 2025 – Nov 2025

- Developing end-to-end data pipelines using Apache Airflow, Spark, and Python in an intensive 4-month program.
- Designing and implementing Data Warehouses using Snowflake and dbt, reducing query latency by 30%.
- Collaborating with cross-functional teams to integrate AI models into data workflows using Docker containers.

Beni-Suef University

Beni-Suef, Egypt

Bachelor of Computer Science

2020 – 2024

Experience

Instant Software Solutions

Hybrid

AI Engineer Intern

May 2025

- Implemented 6 AI projects including recommendation systems, Instagram scraping, and Twitter sentiment analysis.
- Developed chatbots and real-time emotion recognition systems leveraging NLP and Computer Vision techniques.
- Optimized ML models using advanced algorithms (ALS, SVD) and processed diverse datasets with Pandas/NumPy.

Projects

Olist E-commerce ELT Pipeline | *Snowflake, Airflow, dbt, Docker, Power BI*

- Architected a scalable ELT pipeline processing 100K+ records using Medallion Architecture (Bronze, Silver, Gold).
- Orchestrated daily workflows using Apache Airflow and containerized the environment with Docker.
- Implemented dbt for transformation with 26+ automated tests and modeled a Star Schema for analytics.
- **Repo:** github.com/YOU5F/Olist_ETL_Project

ITI Examination System | *SQL Server, T-SQL, SSMS, Docker*

- Engineered a normalized relational database with complex Stored Procedures for automated exam generation.
- Established a secure Role-Based Access Control (RBAC) system and created Audit Triggers for data integrity.
- **Repo:** github.com/YOU5F/CTRL-EXAM

Skin Cancer Detection (AI Platform) | *Python, TensorFlow, Flutter*

- Spearheaded an AI healthcare platform for skin cancer detection using CNNs, achieving high classification accuracy.
- Built a patient ecosystem with drug reminders and chat modules; awarded "Excellent" for technical impact.

Technical Skills

Languages: Python (Advanced), SQL, Bash Scripting, Java, C++

Data Engineering: Apache Airflow, Apache Spark, Hadoop, Kafka, dbt, MongoDB

Cloud & DevOps: AWS (S3, EC2, Glue, EMR, Redshift), Docker, Linux, Git/GitHub, Jenkins

AI & Visualization: Machine Learning, NLP, Power BI, Matplotlib

Soft Skills: Agile Project Management, Problem Solving, Team Leadership, Critical Thinking

Languages: Arabic (Native), English (Advanced)

Certifications & Training

AWS Academy Graduate - Data Engineering & Cloud Foundations *Amazon Web Services (AWS)*

2025

Artificial Intelligence Diploma (170 Hours) *Instant Software Solutions*

2024

Fundamentals of Agile Project Management *Project Management Institute (PMI)*

2022

Technical Courses: Apache Spark (Frank Kane), Docker for DevOps (Mumshad Mannambeth), MongoDB (Maximilian), Modern Data Warehouse (Baraa Salkini)