Mostafa Hamdy

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PROFILE SUMMARY

Highly motivated Data Engineer with a robust understanding of data architecture, database management, and data warehousing. Skilled in utilizing Python and SQL for data manipulation and analysis. Adept at using tools like Apache Spark for transforming data and Apache Airflow and Jenkins for workflow automation and Git for version control. Committed to leveraging data to drive strategic decisions and enhance business operations.

INTERNSHIPS

Information Technology Institute (ITI) Program   May 2024 – September 2024
Data Engineering Track – Menofia Branch

Software Engineer @ Watanya For Roads   March 2023 – March 2024
Nasr City   *(Military Service)*
- Gathered system requirements from stakeholders.
- Created a plan for the software's architecture and design.
- Developed the software application and wrote code.
- Executed test cases to identify and fix bugs or errors.
- Released software meeting high quality standards.

EDUCATION

Faculty of Electronic Engineering – Menofia University   Aug 2017 – July 2022
Bachelor of Computer Science and Engineering   *Grade: Good*

PROJECTS

Driver Monitoring System (Graduation Project) | *Python, SVM, OpenCV, Transfer Learning* July 2022
Amazon Product Sentiment Analysis | *Python, NLP Techniques, Logistic Regression* December 2023
Image Filtration "Image Processing" GUI | *Python, Tkinter, Image Processing, Git* September 2021
Plastic Marine Debris Detection Model | *Python, Transfer Learning, Tableau, Git* July 2021

TECHNICAL SKILLS

Programming: Python (pandas, matplotlib, plotly, dash, dask) — Web scraping (Beautiful Soup, Selenium) — Shell scripting.
Development Tools: VS Code — Docker — Jenkins (CI/CD) — Git.
Data Engineering: Apache Hadoop, Spark, Kafka, Airflow — ETL (SQL Server Integration Services (SSIS), Talend).
Cloud: AWS EC2, VPC, S3, Lambda.
Databases: RDBMS (Microsoft SQL Server) — noSQL (MongoDB) — Data warehouse modeling.

COURSES AND CERTIFICATES

- Implementing Analytics Solutions Using Microsoft Fabric - Microsoft
- Associate Data Engineer in SQL Track - DataCamp
- Machine Learning Specialization - Coursera / AndrewNG

ACHIEVEMENTS

- **Best Engineering Idea in FEE Control Exhibition Competition**   June 2022
- **1st Place in NASA Space Apps Global Competition**   June 2021

LANGUAGES

- **Arabic:** Native
- **English:** Intermediate