

Mahmoud Maghraby

Data Engineer | Data Analyst

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EXPERIENCE

Worex Technology | Data Engineer

Cairo, Egypt | **11/2024 – Present**

- Designed and implemented ETL processes using Microsoft SSIS, SSAS and SSRS for data integration and reporting.
- Worked on a project utilizing Microsoft BI tools to optimize data workflows and enhance analytics.
- Learned and applied Talend for data extraction, transformation, and loading (ETL).

Egypt Healthcare Authority | Data Analyst

Cairo, Egypt | **03/2024 – 11/2024**

- Performed statistical analysis to identify trends and insights from large datasets.
- Cleaned, transformed, and validated data for accuracy and consistency.
- Developed interactive dashboards and reports in Power BI to support data-driven decision-making.
- Automated repetitive data processes using Python, improving efficiency and reducing manual effort by 65%.

Worex Technology | Intern Big Data Engineer

Cairo, Egypt | **09/2023 – 11/2023**

- Interact with Kafka and understanding Data Pipelining
- Interact with APIs using python scripts to extract Data

PROJECTS

- **AlBaraka Bank Establishing EDW & BI | Worex Technology** **12/2024 – Present**
 - Designed and built a structured Enterprise Data Warehouse (EDW) using IMAL Core data.
 - Developed and optimized ETL processes with SSIS for seamless data integration.
 - Created a tabular model in SSAS to enable efficient data analysis and reporting.
 - Designed interactive dashboards and reports for business leaders to drive data-driven decision-making.
- **Analyzing and Modeling Data | Egypt Healthcare Authority** **03/2024 – 05/2024**
 - Cleaning and analyzing the data of the last half of the year 2023
 - visualizing and creating an interactive dashboard to present to management.
 - Automating analyzation and data preprocessing using python scripts
- **AI Chatbot to Book appointments for clinic services | Freelance** **01/2024 – 02/2024**
 - Training and building chatbot model
 - book appointments for patients through clinic website
 - Integrating Chatbot using Flask framework
- **Location Intelligence | Worex Technology** **09/2023 – 11/2024**
 - Interacting with APIs and web scrap to extract Data
 - building a data frame containing (location, coordinates, pedestrian density, traffic layer)
 - Building GUI To present the Output results
- **Deep learning Localization of web UI Sketches | Freelance** **07/2024 – 09/2024**
 - Building neural network model to detect UI sketches & locating their position
 - Replace UI sketches with html code to build web
 - Integrating results with Bootstrap for improving webpage design
- **CNN-Based Image Denoising | Graduation Project** **09/2022 – 06/2023**
 - Grade: A+
 - Developing a neural network for image denoising by training on paired noisy and clean images.
 - Enhancing digital images using deep learning, leveraging advanced techniques for noise reduction.

SKILLS

- Technical Skills
 - **Programming:** Python, Java, SQL
 - **Data Engineering & Analytics:** ETL, SSIS, SSAS, Power BI, Tableau, Talend
 - **Machine Learning & AI:** TensorFlow, Scikit-learn, Deep Learning
 - **Big Data & Cloud:** AWS, Apache Kafka, MongoDB, Linux
 - **Visualization & Reporting:** Power BI, DAX, Report Builder
- Soft Skills
Self-Learning, Time Management, Problem Solving, Communication Skills, Research and Information Gathering
- Language
Arabic (Native), English(Fluent) , German(Intermediate)

EDUCATION

The British University In Egypt | Bachelor of Computer Engineering Cairo, Egypt| **09/2018 – 06/2023**

- GPA: 3.00/4.00
- Grade: Very Good

Certificate

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| • IBM Machine Learning IBM | 02/2024 |
| • AWS Fundamentals AWS | 12/2023 |
| • Google Data Analytics Google | 10/2023 |
| • Data science AMIT Learning | 08/2022 |
| • Embedded systems NTI | 08/2021 |