Alyaa Mohamed Omar

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Work Experience:

Aramex International | Product Association IT   May.2023-Current

- Support different issues in logistics using SQL.

- Create Integration and APIs between the customer and Aramex system SSIS.

- Design and Create reports using T-SQL and SSRS.

Truemega Technology Solution| Oracle Developer internship   Sept.2022–Oct.2022

- Get data from database by using SQL and PL/SQL.

- Generate reports using SQL and oracle BI tool.

Emarat Al-Ard Research Center| Machine Learning Engineer internship   Oct.2021–Mar.2022

- Extract data using web-scraping.

- Validating, cleaning, and manipulating data to facilitate robust data analysis.

Advanced Computer Technology| Software Engineer internship   Aug.2021–Sept.2021

- Learn to work with Opera Service.

- Create interface between Front-end and Back-end.

Education:

Information Technology Institute (ITI) | Data Analysis   Nov.2022- Mar.2023

- Data Analysis 4-months Intensive program.
- Ministry of Communication and information Technology (MCIT).

Helwan University | Bachelor of Computer Engineering   Sept.-2017- July.2022
- **Cumulative Grade**: Very Good.

- **Graduation Project**: Automated Recognition Fruit Quality System.
- **Project Degree**: Excellent.

Projects:

[Automated Recognition Fruit Quality System](#) | Graduation project

- Integrating the **object detection** model with The **Embedded system** to make an intelligence robot arm that can distinguish and separate ripe and unripe fruits in the production line.

- Extracted data using **web-scraping.**

- Convert data to Yolo-v5 format, train Yolo-v5 model in custom data to detect ripe and unripe fruits.

[Company Bankruptcy Prediction](#) | Kaggle

- Explore Data Analysis using **Python,** preparate, solve data imbalance and clean data using **python.**

- Train six **Classification** Models and compare between them by using Accuracy, F1-measure, Recall and prediction.

[Air Quality in Nairobi](#) | WorldQuant University

- Built a time series model predicting daily PM 2.5 readings from openAfrica data, mastering **MongoDB** querying and autoregression implementation.
- Enhanced model accuracy by fine-tuning hyperparameters, showcasing skills in optimization for improved predictions.

[Hotel Rooms Prices Analysis](#) | Freelancing

- Validate, Clean and Manipulate data using **SQL**.

- Build interactive dashboards using **Power BI** to display the **Insights.**

[Housing in Buenos Aires](#) | WorldQuant University

- Developed linear regression model using Scikit-learn, implementing data pipelines for handling missing values and encoding categorical features to enhance model accuracy.

- Enhanced model performance by implementing strategies to mitigate overfitting, showcasing proficiency in optimizing predictive models for real-world applications.

[Telecom customers churns Analysis](#)

- Validate, Clean and Manipulate data using **Power BI**.

- Build dashboards using **Power BI** to display the **Insights.**

Customer Segmentation

- RFM Analysis to know your customer for best marketing strategy using **Analytical-SQL.**

- Using online retail dataset, Summarized the data and provide insights about Customers.

Technical Skills:

- Python, Java, C++ and OOP Programming Language.
- SQL, PLSQL, and Analytical SQL, with expertise in database management.
- Skilled in machine learning and deep learning techniques, leveraging Python libraries such as pandas, NumPy, Matplotlib, SKlearn and Seaborn for data analysis and modeling.
- Data visualizations using tools like Microsoft Excel, Power BI, and Python to convey insights effectively.
- A/B testing and hypothesis testing for robust statistical analysis.
- Strong problem-solving abilities
- Data warehouse management, ETL (Extract, Transform, Load) processes, SSIS, SSAS and SSRS.

Achievement:

The Egyptian Collegiate Programming Contest   Aug.2021

- Participate in local ECPC contest for problem solving
- using C++ programming language.

References are available upon request.