

Rania Sakr

Data Analyst | Business Analyst

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EDUCATION

Bachelor of Computer Science and Engineering (GPA 3.3)

09/2019 – 07/2024

Faculty of Electronics and Engineering, Menofia University

PROFESSIONAL EXPERIENCE

Data Scientist

05/2023 – 07/2024

ALX

- Enhanced relational databases using **SQL**, boosting data retrieval efficiency by 30%.
- Developed interactive **Power BI** dashboards and leveraged **ETL** tools for **data cleaning** and **pipeline creation**.
- Deployed **machine learning models**, achieving up to 90% accuracy in classification tasks.
- Engineered **NLP** tools for sentiment analysis and text processing.

PROJECTS

Break Through Hire 

09/2023 – 07/2024

Graduation project

- Scraped over 10,000 job posts using **Selenium**, applying **NLP** models to extract job titles and skills with 85% accuracy in CV matching.
- Engineered a **Flask** application to seamlessly integrate frontend and backend.
- Managed job seeker and recruiter information with **SQL database**, and presented insights using **Looker Studio** to highlight job market trends and skill requirements.

AdventureWorks BI Solution

Using SQL Server, SSIS, and Power BI

- Designed and implemented a **data warehouse** schema using SQL Server Integration Services (**SSIS**), creating a star schema with Fact Sales, Products, and Orders tables, and automating **ETL** processes.
- Crafted a **Power BI** dashboard with dynamic calculations using DAX, delivering actionable insights and comprehensive data analysis

Sales Performance 

using power BI

- Constructed a detailed sales dashboard utilizing a star schema for effective **data modeling**.
- Incorporated **data transformations** and **time intelligence functions** to improve insights and analysis of business performance.

Zomato Data Analysis 

using python

- Executed **EDA** on the Zomato dataset using **pandas**, focusing on data integration and cleaning.
- Visualized data with **Matplotlib** and **Seaborn**, creating charts and plots to reveal key insights.

WALMART Sales Analysis 

using SQL

- Performed a comprehensive Walmart sales analysis using **SQL**, developing complex queries to aggregate and analyze data, and generating insights into performance metrics and trends.

Attrition Analysis 

using power bi

- Carried out Churn Analysis using **Power BI**, developing a dashboard to visualize churn patterns and employing data analysis to identify key factors and trends affecting customer retention.

SKILLS

Data Analysis Tools: Pandas, NumPy | Data Visualization: Matplotlib, Seaborn, Power BI |
Databases: SQL, Data Warehousing (SSIS) | Programming Languages: Python | Web Development: Flask |
Supervised Machine Learning | Data Scraping: Selenium