Ahmed Abdelmoneim Abdelhalim

Junior Data Analyst & BI Specialist

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About Me

A Junior Data Analyst & BI Developer, blending his Computer Science background with a keen focus on **data-driven decision making**. a strong passion for transforming data into information and knowledge to decisions and finally to actionable insights. My expertise lies in **gathering, cleaning, analyzing, and visualizing data** to help organizations make informed decisions and **provide meaningful business insights.** My expertise in **SQL, Python, Web scraping, Excel, BI-Tools (SSIS-SSAS-SSRS-BI), ETL, DWH, Power BI (Data modeling-Power Query-DAX-Data visualization)**, data visualization tools, designing interactive dashboards and comprehensive reports for data-driven insights.

Certificates

Data Literacy Essentials S.sas

Artificial Intelligence (60 hrs.)

100 Days of Code: The Complete Python Pro Bootcamp for 2023

Database and SQL Fundamentals

Education

Bachelor of Computers and information, Computer Science major	MTI University	**Sep 16'	July 21'**

Projects

Preview my Portfolio

E-commerce Database Management System Using SQL Server, SSIS, SSAS & SSRS

- Created a (**DBMS**) project, including an Entity-Relationship Diagram (**ERD**) and Mapping.
- Used **SQL** for implementing **OLTP**, and **Datawarehouse OLAP** components.
- Managed challenges related to **data integration**, scalability, and complex data transformations.
- Used (**SSIS**) for seamless data extraction, transformation, and loading processes.
- Used (**SSAS**) to make **cubes** and (**SSRS**) to provide intuitive **insights** and **reports** for end-users.

Restaurant Sales Analysis Project Using Microsoft Power BI

- Designed business overview and Restaurant performance **dashboards** in **Power BI**.
- help in enhance **sales strategies** and make **data-driven decisions**.

Customer Churn Analysis Project Using Microsoft Power BI

- Designed business overview and Restaurant performance **dashboards** in **Power BI**.
- Presented compelling **insights** that drive informed decision-making.
- Following customer behavior to know the rate at which customers leave a business compared to the total number of active customers and using techniques to attract customer once agent.

Human Resources Analysis Project Using Microsoft Power BI

- Demonstrated expertise in data importing and **modeling** within **Power BI**.
- The report provides an analysis of employee turnover in a company, detailing the turnover rates by year, reasons for termination, average salary, and demographic breakdowns such as gender, education level, and location.
- It also highlights key metrics like the overall turnover rate of 29.17% and an average salary of $4.11K.

Carrefour Web Scraping With Python - WebScraping Using Python

- Created a **WebScraping** script using **Python**, **Requests**, and **BeautifulSoup** to collect the data.
- **Extracted data** including product names, regular and sale prices, sale percentages, sizes, and colors.
- Implemented pagination handling to **scrape** data from **multiple pages** and ensured data consistency.

- Generated a **CSV file** to store the collected data for potential **business analysis**.

Weather Data Analysis Project using Python Pandas

- derive meaningful insights and patterns from the dataset
- and use various **pandas functions** and methods to manipulate and **analyze the data**.

Coffee Machine OOP Project using Python OOP

- Used **OOP** With **Python** to make Coffee Machine Project, Using **Classes** and **Objects**.

Technical Skills

- **Technologies:** (SQL Server, Visual Studio, Power BI, Excel, PyCharm, Subline and Project Jupyter)
- **Structure Query Languages: SQL Server** (SQL statements, Join, Grouping, Aggregate Functions, Union, Subqueries, Ranking Functions, Constraints, Rules, Variables, IF, While, Functions, View, Stored Procedure, Index, Trigger, Cursor, Jobs, Snapshot, Backup & Restore)
- **Database Design:** (Normalization, ERD, EERD, Mapping, Creation & Implementation, OLTP)
- **Familiar with Datawarehouse:** (ETL, Data Mart, OLAP, Star Schema, Snowflake Schema, Fact & Dim)
- **Python Programming Language:** Python (Pandas, NumPy, Matplotlib, Tkinter, OpenCV)
- **Web Scraping:** With Python(BeautifulSoup, Requests, Selenium WebDriver)
- **Data Visualizations tools:** Power BI (Data Sources, Power Query, Data Modeling, DAX, Reports and Dashboards) & SSRS
- **BI tools: SSIS** (ETL, ELT, Star Schema, DWH, Data Marts),
  SSAS (Cubes, KPI's, Hierarchies, Calculations, OLAP) &
  SSRS (Reports)
- **Microsoft Excel:** (Pivot Tables, Advanced Functions, Nested Functions and Dashboards)
- **Version Control System:** Git & GitHub
- **Familiar with:** (C++ Programming Language, HTML & CSS, SQLAlchemy & SQLite)
- **Soft Skills:** (Continuous Learning, Leadership, Teamwork, Hardworking & Time Management)