Mahmoud Sultan

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SUMMARY

Highly motivated and detail-oriented Data Analyst with proficiency in Python, SQL, Power BI, Tableau, Power Query, DAX, and Excel. Eager to apply analytical skills, technical expertise, and a strong work ethic to contribute to data-driven decision-making in a professional environment.

EXPERIENCE

Data Analyst
Tasaheel   **October 2021 - November 2023, Cairo, Egypt**

- I started to shift my career from Software Development into Data Analysis at the beginning of 2021. I started to provide Tasaheel a full analysis for their data depending on the data that gets collected through the software I had developed for them earlier and I started to provide them professional analysis.
- Implemented advanced data collection methods, leading to a 25% increase in new data generation and significantly improving overall business insights.
- Designed and implemented specialized data models, which increased system efficiency by 30%, leading to improved business decision-making and enhanced performance metrics.
- Achieved an increase in operational efficiency by 20% through interpreting data, developing data-driven strategies, and implementing actionable business decisions based on detailed quantitative analyses.
- **Skills:** SQL, Power bi, Python, Excel, Excel Dashboard, Pivot Table, Tableau, Data Cleaning, Data Analyzing, Data Visualization.

Software Developer "Project Contract"
Tasaheel   **January 2021 - August 2021, Cairo, Egypt**

- Tasaheel is a tourist company, they hired me to develop a web based software for the company to manage their work and their transactions with the clients and the Russian Embassy in Egypt. I still help this company when they need to update any of the software modules or if they have a technical problem.
- **Skills:** PHP, Laravel Framework, SQL, MySQL, JavaScript, Apache, Project Planning, Data Exporting.

Software Developer "project contract"
Misr Italia   **May 2019 - September 2019, Cairo, Egypt**

- The company hired me to study their employees work behaviors and experience their workflow in order to develop a management system to handle their work.
- Gathered and analyzed user requirements for a Software Development project contract, resulting in enhanced system performance by 30% and improving clients' satisfaction by 20%.
- **Skills:** PHP, SQL, MySQL, JavaScript, HTML, Bootstrap, Ajax, Apache, Project Planning.

Technical Manager
Sphinx TV   **February 2017 - February 2019, Cairo, Egypt**

- Sphinx TV is a media company based in the US, I was their advisor in the middle east, I managed relationships between the company and their clients in the Middle East.
- **Skills:** PHP, SQL, Excel.

Software Developer
Xwady   **January 2017 - November 2017, Cairo, Egypt**

- I worked as a software developer at Xwady in Cairo, Egypt before I moved to the US. I played a very important role in the company as a problem solver, as well as my coworkers technical and thinking problems. I planed projects and develop web based software's.
- **Skills:** PHP, SQL, MySQL, JavaScript, Ajax, Apache, CPanel, Web Scraping, App Web Service, WordPress, Problem Solving.

EDUCATION

Bachelor's of Computer Science
Future Academy · Cairo, Egypt · 2016

PROJECTS

Pizza sales analysis
· Created a comprehensive Power BI dashboard to monitor pizza sales performance.
· Integrated data from excel, including sales transactions, customer orders, category and size.
· Visualized sales trends, popular pizza varieties, and customer preferences to aid marketing and inventory decisions.

HR attrition analysis
· Analyzed historical attrition data using Excel's data analysis tools to identify trends and patterns.
· Created pivot tables and charts to visualize attrition rates by department, Business Travels, Gender and other factors.
· Produced attrition trend reports for HR and management.

Fleet Management analysis
· Designed a Power BI dashboard to analyze the total cost of vehicle ownership.
· Integrated data from maintenance costs and fuel expenses.

Product sales analysis
· Utilized Power Query for data cleaning and preprocessing to prepare raw data for analysis.
· Developed interactive dashboards and reports in Power BI to visualize key insights and trends.
· Applied statistical analysis techniques to identify patterns and correlations within the data.
· Created DAX calculations for advanced metrics and KPIs in Power BI.

Heavy power nutrition products analysis
· Developed a Power BI dashboard to analyze sales data for Heavy Power Nutrition products.
· Integrated data from sales transactions, inventory levels, and customer demographics.
· Visualized sales trends, top-selling products, and customer segmentation to support marketing and inventory decisions.

Electric disturbance events analysis
· Developed a Power BI dashboard to analyze the causes of power outages in the United States of America from 2002 to 2023.
· Python and Power Query were used to clean the data and handle missing data.
· Show a visualization of the most common causes of power outages in the states and which states have the most power outages.

Students performance analysis
· Developed a Python-based project aimed at analyzing student performance data to derive insights and enhance educational outcomes. Utilizing pandas for data manipulation and visualization libraries like Matplotlib and Seaborn, I explored patterns and trends within the dataset to identify factors influencing student success.

English Premier League (EPL) analysis
· Developed a comprehensive Python project focused on analyzing English Premier League (EPL) data to extract valuable insights into team performance, player statistics, and match outcomes. Leveraging data scraping techniques with libraries like BeautifulSoup, I collected EPL data from various sources, including official league websites and sports analytics platforms. Employing pandas for data manipulation and exploratory data analysis, I conducted in-depth investigations into team standings and player performance metrics. Utilizing advanced visualization libraries such as Matplotlib and Plotly.

CERTIFICATIONS

Google Data Analytics
Coursera
· Completed a comprehensive, industry-recognized certificate course designed by Google, covering key aspects of data analysis including data cleaning, visualization, and processing using tools like SQL, R, and Tableau.
· Gained practical experience through hands-on projects, simulating real-world data analytics scenarios to develop actionable insights.
· Developed proficiency in modern analytics tools and methodologies, preparing for roles in diverse sectors such as technology, finance, and healthcare.
· Acquired skills recognized across industries, enhancing career prospects and professional development.

SKILLS

Programming Languages: Python (including libraries like Pandas, NumPy, Matplotlib), R, PHP (including Laravel Framework), JavaScript

Data Visualization: Power BI, Excel (including Power Query and DAX), Tableau

Data Cleaning and Transformation

Data Modeling

Database Querying: SQL

MYSQL

Version control with Git

Strong Problem-solving and Critical Thinking

Excellent Communication and Team Collaboration

Web scraping

Languages: English, Arabic