Aly Hussein

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EDUCATION

Kennesaw State University, January 2022 – January 2025   Kennesaw, GA
Bachelor of Science in Computer Science
GPA: 3.6
Relevant Courses: Database Systems, Algorithm Analysis, Discrete math, Applied statistics and data analysis, Big data analytics, Information Retrieval, Regression Analysis, Machine learning, Python for Data science

Dalton State University, Fall 2019-December 2021   Dalton, GA
Associate's degree in Computer Science
GPA: 3.8
Relevant Courses: Programming 1 and 2, Data Structures, Calculus 1 and 2

SKILLS

Technical Skills: SQL, Microsoft Excel, Python, DAX, Tableau, PowerBI, Microsoft Access, RStudio, PowerPoint, Git
Languages: English and Arabic

WORK EXPERIENCE

First Energy, *Data Analyst Intern*   Remote | May 2024– Current

- Conducted in-depth analysis of public contact cases to strengthen safety protocols.
- Collaborated with the public safety team to identify trends and improve response strategies.
- Leveraged advanced data cleaning techniques to remove duplicates, correct errors, and ensure data accuracy, optimizing the quality of insights.
- Utilized DAX and Power BI to generate dynamic dashboards, supporting community-focused safety initiatives with actionable, data-driven insights.

Generalized Robotics, *Web Design Intern*   Kennesaw, GA | May 2023 – August 2023

- Collaborate in the development and maintenance of web page layouts and user interfaces using HTML and CSS.
- Participate in code reviews and gain experience with version control systems like Git.
- Help maintain and update content on websites, ensuring consistency and accuracy.

PROJECT EXPERIENCE

Unicorn Club Data Analysis

- Utilized thousands of lines of financial data to create visual representations of information regarding businesses that hit at least 1 billion dollars in revenue.
- Used pivot tables and cleaned dataset using Microsoft Excel for more effective and easier analysis/readability.
- Imported csv files onto Tableau to make clean representations of data.

Airline Review Data Analysis

- Analyzed airline review data using Python and Jupyter Notebooks, extracting insights into customer satisfaction and service quality.
- Employed data visualization techniques, including bar charts, scatter plots, pie charts, and line charts, to illustrate trends and correlations in customer ratings based on various factors such as seat comfort and cabin staff service.
- Conducted statistical analysis to determine the influence of factors such as food and beverage quality and Wi-Fi availability on overall customer ratings, informing strategic decisions to enhance the passenger experience.

Employee Management Database

- Developed a comprehensive SQL database for an employee management system, defining tables to store employee information such as personal information and department affiliations.
- Ensured data integrity and normalization using primary and foreign keys to minimize redundancy.
- Formulated SQL queries to retrieve and analyze employee data, utilized SQL JOIN operations, to extract meaningful insights.

Personal Website: https://alyhussein2001.github.io/AlyHussein.github.io/