Senior Computer and Communications Engineering Student

WALID AL-HALLAK

+96181284484 | walid.hallak2@gmail.com
https://www.linkedin.com/in/walid-al-hallak/
Portfolio
Saida, Lebanon

Skills

- SQL (Microsoft SQL Server, MySQL, BigQuery)
- Python (Pandas, NumPy, SciPy, MatPlotLib, RegEx, Object-Oriented Programming)
- Object-Oriented Programming, Data Structures and Algorithms)
- Documentation and Reporting
- Excel (XLookup, Conditional Formatting, Pivot Tables, Dashboards)
- Microsoft Power BI (Data Cleaning, Power Query, DAX, Reporting)

Projects

EMERGENCY RESPONDERS SMART MONITORING SYSTEM – Summative Learning Project   Ongoing

- Researched about the topic to **identify problems** and propose solutions to be implemented.
- Gathered data from emergency responders to **identify key pain points** and act upon them.
- Developed a **preliminary design** for a novel engineering **prototype.**

CS:GO MATCHES ANALYSIS – Personal Project   January 2024

- Utilized **Power BI** to transform over 1,200,000 rows of data spanning 100 minutes of CS:GO data.
- Used **DAX** to create new measures that allowed me to find trends in the data.
- Created an interactive **2-page report** to showcase the insights gathered from the data.

FIREFIGHTERS FATALITIES IN THE USA FROM 1990 TO 2021 – Personal Project   November 2023

- **Exported, cleaned, and processed** public data to extract pertinent information using **Excel.**
- Analyzed data comprehensively to identify **trends and patterns** for potential interventions.
- Developed a customized **dashboard** to visually represent complex data in a clear and concise manner.

SENTIMENT ANALYSIS ON ARABIC TWEETS – Personal Project   May 2023

- Conducted an analysis of 70768 Arabic tweets with diverse classifications using **Python**.
- Utilized **regular expressions** strategically to efficiently remove extraneous elements and enforce **normalization** rules.
- Interacted with **Twitter's API** to retrieve a diverse dataset of Arabic tweets for training and testing purposes.
- Implemented **Natural Language Processing** techniques to train a classification model that reached **80% accuracy.**
- Aggregated and visualized the data by using **pandas** to compile a professional report.

Work Experience

SOFTWARE DEVELOPMENT INTERNSHIP – SAUGO 360   June 2023 - August 2023

- Worked with **Ruby** to create a web application with an **MVC design pattern** that served multiple purposes.
- Leveraged **Prompt Engineering** to achieve desired outputs.

VOLUNTEER – Lebanese Red Cross   June 2022 - Present

- Collaborated seamlessly with a **diverse team** of healthcare professionals to ensure efficient and effective emergency response.
- Managed the timely restocking of medical supplies, **minimizing downtime** during critical situations.

Education

BACHELOR OF ENGINEERING – Rafik Hariri University – Mechref, Lebanon   September 2020 – May 2024
Major: Computer and Communications Engineering – CGPA: 3.85

Other

- **Languages:** Arabic (Native), English (Fluent), French (Fluent)
- **Certifications:** Google Data Analytics Program, Google Advanced Data Analytics Program (4 out of 8 courses)