

Esraa Haydar

Beirut, Lebanon | (961) 81875121 | esraahaydar16@gmail.com

Profile

I am an adept data science enthusiast, strategically positioned at the nexus of statistical analysis and narrative construction. Possessing a meticulous attention to detail coupled with an innate ability to distill intricate datasets into coherent and compelling narratives, I am resolutely committed to uncovering latent insights within the digital sphere. Equipped with cutting-edge methodologies and a steadfast dedication to excellence, I am poised to make substantial contributions to the ever-evolving landscape of data science.

Projects

Web Project:

1. Donation Website for Non-Profit Association (HTML5, CSS3, JavaScript)

- Designed and developed a user-friendly donation website using HTML5 for a non-profit association.
- Implemented CSS3 for a visually appealing and responsive layout, ensuring optimal viewing across different devices.
- Integrated JavaScript to create a dynamic donation form, allowing users to select donation categories and enter their details for secure payment processing.

2. Multi-Page E-Commerce Website for Clothing (HTML5, CSS3, JavaScript)

- Built a comprehensive e-commerce website for a clothing store using HTML5, catering to various clothing categories.
- Utilized CSS3 to create a visually engaging and user-friendly interface, facilitating product browsing and navigation.
- Incorporated JavaScript to enhance user experience with features like product filtering, shopping cart management, and a secure checkout process.

Python Project:

DEVELOPED A WEB DATA SCRAPER AND CLEANER UTILIZING NUMPY AND PANDAS LIBRARIES.

This project involved creating a Python script that retrieves data from websites and applies various cleaning techniques. It fetches content using requests and parses HTML with BeautifulSoup. The core functionality resides in pandas:

- **Data Extraction:** The script extracts data based on the website's structure .
- **Data Cleaning:** It removes rows with missing values (NaN) using dropna and eliminates duplicates with drop_duplicates.
- **Missing Value Imputation (Optional):** The script provides placeholders for common imputation methods like forward fill (ffill), backward fill (bfill), or mean imputation, allowing customization based on the data and analysis goals.
- **CSV Export:** Cleaned data is saved as a CSV file using to_csv.

This project demonstrates proficiency in web scraping, data cleaning with pandas, and handling missing values. It showcases the ability to develop tools that automate data acquisition and preparation for further analysis.

Scraping project:

Developed a web scraper application for sports data analysis. This software extracts data from a user-specified sports website on a chosen date. It utilizes web scraping techniques to retrieve relevant information, then employs data cleaning and classification algorithms to organize the data into structured tables. The cleaned and formatted data is subsequently stored within a database, enabling efficient analysis and exploration of sports statistics.

Database Project:

Designed and implemented a hospital management database using SQL. This project involved creating a relational schema encompassing patients, staff, departments, procedures, and appointments. The database facilitated efficient data storage, retrieval, and manipulation, enabling functionalities such as scheduling appointments, tracking patient history, and managing inventory.

Education

DATA SCIENCE – LEBANESE UNIVERSITY (PRESENT) 2022-2025

Programming languages

Python, Java, C++, SQL, JavaScript

Skills & Abilities

- Communication skills
- Work under pressure
- Quick to adapt
- Analytical skills
- Banking and finance knowledge
- Advanced level in English language
- Fast learner
- Problem – solving skills
- Teamwork
- Marketing knowledge