

Assignment

Create slides for each topic and test the dataset we will have presented when in **Statistics Class**.

1. Regular Expressions

Objective:

To reinforce understanding and practical usage of regular expressions in data science.

Step

- Provide a brief overview of what regular expressions are and their importance in data science.
- Explain the basic syntax and common use cases.
- Include a sample dataset for testing.

2. Web Scraping

Objective: To develop skills in web scraping and data extraction.

Step

- Explain the concept of web scraping and its application in data science.
- Highlight ethical considerations and the importance of respecting website terms of service.
- Include a website for testing.

3. Exploratory Data Analysis

Step

- Provide an overview of exploratory data analysis (EDA) and its role in the data science workflow.
- Provide step in EDA

- Include a sample dataset for testing (draw insights and provide recommendations based on their analysis.).
4. Jupyter notebook connect with any database

Objective: To connect Jupyter Notebook to a database and retrieve data.

Step

- Database Connection
 - Demonstrate executing a simple SQL query to retrieve data.
5. Streamlit

Step

Objective: To use Streamlit to build data visualizations or create a basic web application.

- Briefly introduce Streamlit and its purpose in building data applications.
 - Encourage exploration of Streamlit's documentation for customization options.
 - Include a sample dataset for testing.
6. Power BI with Python