Maths-Assignment-1

Task 1 - Hands On Assignment

- Data Analysis in python
- Web Scraping using Beautiful Soup
- Random Variate Generation

Run the notebooks discussed in class and upload it in the respective folders in the HandsOn link below.

Task 2 - Case Study Assignment

Perform data analysis on the suicides dataset and answer the following question:

- 1. Data Preprocessing
 - a. Name the categorical and numerical columns in the dataset.
 - b. Find the number of unique values in the following columns country, year, sex, age, generation
 - c. Plot a heatmap of the missing values in the dataset.
 - d. Find the number of outliers in each numeric column and remove them.
 - e. Find the attributes with the highest correlation coefficient.
- 2. Data Visualization
 - a. Plot a pie chart of the 'suicides/100k pop' per generation.
 - b. Plot a line plot of population vs suicides_no.
 - c. Plot a barplot of the 'gdp per capita (\$)' per year.
 - d. Plot a distplot for the 'suicides/100k pop'

Link to dataset:

https://drive.google.com/file/d/1YAmdi9LxlSaNvLO5cM2U8bDiAbq1uPwO/view?usp=drive_link

Submission Guidelines

Task 1

Upload your notebook to the below drive with the following naming format: SRN HandsOn1 Section.ipynb in each folder.

Drive link for submission:

https://drive.google.com/drive/folders/1YSLKvFFb2wWi5UYhFMQht1dh4oCofvTB?usp=sharing

Task 2

Upload your notebook to the below drive with the following naming format: SRN_Assignment1_Section.ipynb Drive link for submission: https://drive.google.com/drive/folders/1vBFdgfp46ygovN8c5YtQbWg8UaZV1Vgi?usp=sharing

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Deadline for submission - 12 Sept 2024,23:59