Assignment-7
Data Analytics and Visualization (CS/IT312)
2 March, 2022

Instructions

1. Create "Assignment7_Branch_YourId.py" file. *YourId* will be the student ID and *Branch* will be "CS" or "IT". For example, if student ID is 202018001 and Branch is CS, then file name will be "Assignment7_CS_202018001.py".

2. A student has to write the code for following tasks.

3. Upload your "Assignment7_Branch_YourId.py" file into the Google form shared on Google class room. Fill the Google form.

4. Please be present during lab session. The deadlines of the submission for group - 1 and group - 2 are 8 days from lab session.

Get help from:
Book: chapter 2: Practical Statistics for Data Scientists
Data Source: https://data.gov.in/ and https://www.kaggle.com/ronitf/heart-disease-uci

Data:

- Data contains the consumer price indices of various needs of Indian population (*All_India_CPI.csv*).

- Data contains house price in Malborn for various house. (*Melb_data.csv*)

- Data contains match information of IPL matches played from 2008 to 2020. (*IPL Matches 2008-2020.csv*)

Tasks

1. Compute the correlation coefficients of columns of the "All India CPI" data. Plot the correlation as heat map.

2. Compute the Contingency table between "toss winner" and "Winner" columns of the data "IPL Matches 2008-2020" data.

3. Plot the hexagonal binning of "Price" and "Landsize" columns of Melborn housing price data.