Assignment-8
Data Analytics and Visualization (CS/IT312)
3 March, 2022

Instructions

1. Create"Assignment8_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 "Assignment8_CS_202018001.py".

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

3. Upload your "Assignment8_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 3: Practical Statistics for Data Scientists
Data Source: https://www.kaggle.com/datasets

Data:

- Data contains Weight, Height and Gender of a human survey (*weight-height.csv*).

Tasks

1. Perform **Random Sampling** by choosing 1000 samples from data. Compute the sample mean and population mean (from whole data) and then compute the error between both mean.

2. Perform **Systematic Sampling** by choosing 1000 samples from data. Compute the sample mean and population mean (from whole data) and then compute the error between both mean.

3. Perform **Stratified Sampling** by choosing 1000 samples from data. Compute the sample mean and population mean (from whole data) and then compute the error between both mean.