

Assignment-9

Data Analytics and Visualization (CS/IT312)

21 March, 2022

Instructions

1. Create “Assignment9_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 “Assignment9_CS_202018001.py”.
 2. A student has to write the code for following tasks.
 3. Upload your “Assignment9_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.
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Get help from:

Book: chapter 2: 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. Verify the ***Central Limit Theorem*** using “Height” feature of the data.
2. Perform the ***Bootstrap*** on “Height” feature of the data.
3. Calculate the ***Confidence Interval*** of 95 % using sample means derived using *Bootstrap*