Lab assignment 1
Special Topics: Data Analytics and Visualization in Healthcare
CSCI-GA.3033-096 (24388)

Problem 1:

Considering the following ranges of BMI:

- BMI less than 18.5 = underweight
- BMI 18.5 to <25 = healthy weight
- BMI is 25.0 to <30 = overweight
- BMI 30.0 or higher = obesity

Obtain the mean, median and standard deviation for each of the following groups: Patients that are underweight, healthy, overweight, and obese.

Problem 2:

Considering the following information about A1C tests:
A normal A1C level is below 5.7%.
A level of 5.7% to 6.4% indicates prediabetes.
A level of 6.5% or more indicates diabetes.

Obtain the mean, median and standard deviation for each of the following groups: Patients that have normal levels of sugar in the blood, patients with prediabetes and patients with diabetes.

Notes:

- This lab assignment is individual.
- Use the dataset provided in week 2 (diabetes.csv) for both problems.
- Use R and Python to implement the problems.
- For each one of the problems, you need to submit two files (the .R file and the .ipynb file).