w3_assessment

August 29, 2021

1 Week 3 Assessment

This Jupyter Notebook is auxillary to the following assessment in this week. To complete this assessment, you will complete the 5 questions outlined in this document and use the output from the python cells to answer them.

Run the following cell to initialize your environment and begin the assessment.

Question 1: What is clustered data? (You'll answer this question within the quiz that follows this notebook)

Question 2: (You'll answer this question within the quiz that follows this notebook) Utilize the following output for this question:

BPXSY1 The correlation between two observations in the same cluster is 0.030 SDMVSTRA The correlation between two observations in the same cluster is 0.959 RIDAGEYR The correlation between two observations in the same cluster is 0.035 BMXBMI The correlation between two observations in the same cluster is 0.039 smq The correlation between two observations in the same cluster is 0.026

Which of the listed features has the highest correlation between two observations in the same cluster?

Question 3: (You'll answer this question within the quiz that follows this notebook) What is true about multiple linear regression and marginal linear models when dependence is present in data?

Question 4: (You'll answer this question within the quiz that follows this notebook) Multilevel models are expressed in terms of _____.

Question 5: (You'll answer this question within the quiz that follows this notebook) Which of the following is NOT true regarding reasons why we fit marginal models?