

Instructions

Please read the following instructions carefully before attempting.

1. The dataset for all questions are available at this [link](#). The required sheet name is mentioned in each question. Download the dataset and load in your code accordingly.
2. If you are coding in R, make sure to submit only the pdf file after knitting. File name format should be <Roll Number>_Reliability_Class_Activity.pdf
3. If you are using any other language/software, submit the appropriate file following the same nomenclature.

1 Advert Rating: Outlier Detection

26 participants (labelled A to Z) were asked to rate sentiment of 110 advertisements on a likert scale (-4 to 4). The individual ratings have been provided in Sheet 1 (Advert Rating).

However, one of the participants has provided random ratings. Using a correlation heatmap, find out the outlier.

2 Reliable Job: Internal Consistency

30 participants were given a questionnaire that measured job satisfaction and job performance through 4 questions each. They have been denoted by fields 'JS' and 'JP' respectively in the Sheet 2 (Reliable Job).

Calculate Cronbach alpha for each of the measure and comment on the internal consistency and acceptability of the measures.