

D1: Central tendency

This week's assignment (D1) is very straightforward.

We would like you to write code that

- 1) Loads the dataset in 'movieDataReplicationSet.csv'. This dataset contains the movie rating data of 400 movies from 1097 research participants on a scale from 0 to 4. Missing values in this dataset represent movies that the participant declined to rate, for whatever reason (usually because they had not seen it).
- 2) Computes the mean rating of each movie, across all participants (the output here should be a variable that contains 400 means)
- 3) Computes the median rating of each movie, across all participants (the output here should be a variable that contains 400 medians)
- 4) Computes the modal rating of each movie, across all participants (the output here should be a variable that contains 400 modes)
- 5) Computes the mean of all the mean ratings from 2) to calculate a "mean of means"

Hint: Whereas you could type all of this out by hand, your life will be much easier if you use loops and/or vector operations. You can use the pre-existing mean, median and mode functions in Python. You don't have to write your own (but you can, if you want to).

Note: Because there is missing data, you'll need to find a way to handle those. There is a code session (CS) on that, which you could check out. It will also be covered in the lab.