Quantitative Sociological Analysis

Inferential Statistics Multivariate Statistics

Exercise 8

April 26, 2025

Netflix survey data: multivariate linear regression

- I augmented our dataset with 1,000 synthetic responses
 - retaining same data structure

- Download this augmented dataset, and
 - save in location where you can retrieve again

- Download the new Rscript, and RScript_Netflix_Augmented.R
 - save in a location where you can retrieve again
- Recode comedy preference to better reflect a continuous variable, so we can
 - assume slope coefficients β_i from LRM reflect Y units

Let's run some LRM models with these augmented Netflix survey data...

Netflix survey data: multivariate linear regression

- First, practice interpreting simple linear regression models
 - try using a different independent variable (x) in each model
 - note how interpretation of slope coefficient(s) (β_i) differs based on level of measurement
- Next, practice interpreting multivariate linear regression models
 - see how the intercept intercept (β_0) changes after adding another independent variable (x)
 - note how interpretation of slope coefficient(s) (β_i) now must consider holding all other Xs "constant"
- Consider including interaction terms, and practice interpreting moderation effects
 - where the effect of one predictor X_1 depends on the value of another X_2