November 4, 2024 Daniel Hong
Prof. Schwartz STA130

Individual Project Proposal

The variables that I would like to start exploring are every variable starting with LONELY_, WELLNESS_, and CONNECTION_. Using these, I will construct and examine a null hypothesis on every variable and its evidence strength of rejecting the relation from each other. For example, I will go through every LONELY_ variable, and find the linear correlation with the bootstrapped total sum for an individual of the WELLNESS_ scores, or if the observations for each variable are enough we can compare every LONELY_ variable to every WELLNESS_ and CONNECTION_ variable. Then if we find strong evidence to reject the null hypothesis, we will use the relation. If it shows weak evidence in rejecting we will find the p-value and 95-percent confidence interval. This is because if we have weak evidence in rejecting the null hypothesis then we might want to consider the null hypothesis. Then, do the same thing with every WELLNESS_ and CONNECTION_ variable. First, find the correlation among WELLNESS_, CONNECTION_, and LONELY_ variables. Wellness and connection observations might likely show a positive correlation while they might show a negative correlation with loneliness. An alternative result might be connection and loneliness having a positive correlation and both have a negative correlation with wellness. This might be a starting point to investigate considering other variables' correlations with wellness.