

Name: Your name here

Due: 2024/11/18

Homework 8

Be sure to submit **both** the .pdf and .qmd file to Canvas by Monday, November 18th at 11:59 pm. The purpose of this homework is to ensure that you are making meaningful progress on your project prior to the exam and break.

THE NORMAL LATE POLICY DOES NOT APPLY FOR THIS ASSIGNMENT. LATE WORK WILL NOT BE ACCEPTED AND WILL RECEIVE A 0.

1. [1 pt] List all group members for your project. You can all turn in the same copy of this assignment.

2. [1 pt] Provide a link to the data set that you are using for the project. If the data are not found online, describe where you obtained the data.

3. [2 pt] Define the research question for your project.

4. [3 pt] Does your research question entail inference, forecasting, or both?

5. [4 pt] What statistical method will you use to address your research question? Give me a little meat here. For example:

- Will you use purely stochastic approaches (i.e. `auto.arima` without regressors) or regression?
- If forecasting, how will you assess the quality of your model?
- If conducting inference, to what models will you compare to answer your research question?

6. [5 pt] Read your data set into R and create a figure that visualizes your research question. Comment on what the figure suggests about your research question (you do not need to fit any models yet - save that for the project).