

STAT 308 – Group Project

Working in groups of 2, you should write a 3 -5 page paper and prepare an 10 minute presentation to share with the class in the final weeks of class

TIMELINE:

9/29 – Group members.

10/20 – You must meet with me on or before this date to have your data set approved.

11/22 - Outline of your project is due.

11/29 and 12/1 – Presentation. Keep it to 10 minutes to be sure we can get all the presentations done.

12/6 – Paper uploaded to Sakai by midnight.

DATA:

The data set must be robust and interesting. The data set must contain at least 10 numerical explanatory/independent variables and 4 categorical explanatory/independent variables initially. Note, the final model does not have to contain all these variables. The response/dependent variable can be either numerical or dichotomous. A good place to find regression models is Kaggle or <https://archive.ics.uci.edu/ml/datasets.html> (You can sort by year to find more recent data sets.) . Your data set must new to you. You cannot use a data set from a previous project.

PAPER:

Everyone must write their own individual paper based on the groups work. You should perform a preliminary analysis to determine the nature of the variables and explain your findings. You should use techniques developed in class to analyze your data set to determine an appropriate model and assess whether the final model meets the criteria of the regression. Your paper should explain how you arrived at this model. Your paper should include the strengths and weaknesses of your model. Include necessary graphs and output. If necessary, include tables of R-sq, AIC, etc for models considered. However, you **should not** include your code.

PRESENTATION:

The presentation should be 10 minutes long, not including a question and answer session after your presentation. You should give a short introduction of the data and why you chose it. You should explain your model and selection process. You should show the analysis of the important characteristics and discuss the strengths and weaknesses of the model. Everyone in the group must have a speaking role.

Hints:

Make sure you practice and project your slides/presentation before class. Check to make sure the fonts are big enough for everyone in the back of the room to see. Make sure your background format and colors are readable and not distracting.