CS544 Final Project

Picking the Data Set

Look into the following sites as an example and select a data set that interests you.

- 1. https://www.kaggle.com/datasets
- 2. http://www.kdnuggets.com/datasets/index.html
- 3. Any other source of your choice

Preparing the data

- Import the data set into R.
- Document the steps for the import process and any preprocessing had to be done prior to or after the import. Any R code used in the process should be included.

Analyzing the data

- Do the analysis as in Module3 for at least one categorical variable and at least one numerical variable. Show appropriate plots for your data.
- Do the analysis as in Module3 for at least one set of two or more variables. Show appropriate plots for your data.
- Pick one variable with numerical data and examine the distribution of the data.
- Draw various random samples of the data and show the applicability of the Central Limit Theorem for this variable.
- Show how various sampling methods can be used on your data. What are your conclusions if these samples are used instead of the whole dataset.

Presenting the Project

- You will do your project presentation in the classroom.
- Each presentation is for at most 10 minutes.
- The final files for the project will be due on Monday, June 25, 6 AM.

Submitting the Project

Upload a zip file (CS544Final_lastName.zip) containing all the code (R file), the presentation document (PDF or PPT), and all the results in a Word/PDF Document.

Grading Rubric:

- Preparing the data and documenting the data preparation (10 points)
- Analyzing the data and documenting the same (60 points)
- Implementation of any extra feature(s) not mentioned in the specification (10 points)
- Presenting the project in the classroom (20 points)