Pair Assignment 1

MSCI 718

January 20, 2021

Instructions: Working in groups of size 1 or 2, complete this assignment and submit online to the LEARN Dropbox as a **PDF (max 2 pages)**. *Also upload any source files, for example, any .R or .Rmd files that you used, and an appendix (PDF, Rmd, Word, or MD) describing the contributions of each group member. If you discussed problems with other students, please describe the nature of that discussion (e.g., on Team, in a study group). Remember, you can discuss approaches to problems with other groups, but* **the work you submit must be your own.**

In this assignment, you will perform exploratory data analysis and summarize a dataset. You may include any number of appendices showing your work.

Your friend recently got into raising chickens, and has been trying out different diets over days. They want to know if these diets have changed the chicken's weights after 20 days. Use the built-in data set `ChickWeight` to do the following:

1. Summarize the dataset: describe the number of observations, what variables there are, their levels of measurement/data type, and give an idea of the range of values using measures of central tendency, dispersion, and range. Use plots as appropriate.
2. Calculate confidence intervals for mean weight at day 0 and 20 for each diet, plot the results, and interpret them.
3. Write up a conclusion for the effect of diets on chickens after 20 days using evidence from your results.