

Lab 2

CE888 Data Science and Decision Making

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In order to compare the performance of the new vehicle fleet compared to the current vehicle fleet, the miles per gallon of each of the fleets were compared. We can see by the analysis that the upper and lower bound of the standard deviations are different. Their limits are not within the range of each other, thus the data obtained can be analyzed. In order to compare the efficiency of each fleet the scatterplot of their MPG was reviewed.

Even though the standard deviation of the fleets does not differ significantly their standard deviation does, and using bootstrapping the confidence interval of the new fleet is within the interval of the new fleet. This means that there is no improvement of fuel efficiency from using the new fleet.