● Accurately predicted Formula 1 race winner.

- Merged files into results dataframe.

- Trained data set taken from 1985 to 2016.

- Tested data set for 2017 race year.

- Employed random forest and gradient boosting algorithms to identify features that can helped identify a winning Formula 1 race driver.

- Using model, was able to predict Formula 1 race winner with 87% accuracy

One of my passions in life is the sport of Formula 1 due to the cutting-edge technology of the cars within the series. For my capstone, I wanted to predict a potential race winner from historical data and calculate a likelihood a certain driver would win a Formula 1 race. I tested the models using the entirety of the algorithms used in the class to formulate my hypothesis.

The goal was to be able to predict a winning driver for my concluding results. Furthermore, the calculated results were calculated to within an accuracy of 87 percent. This calculation was significantly influenced by a team’s spending budget, which I allocated appropriately depending on who spend the most in the series. For example, I would compare the NCAA March Madness Tournament to Formula 1, meaning the 1 seed is more likely to beat a higher seed, which corresponds to a Formula 1 team and it’s budget. The more money you spend, the higher chance of winning is present. For further review of my code and my analysis please see the attachment.