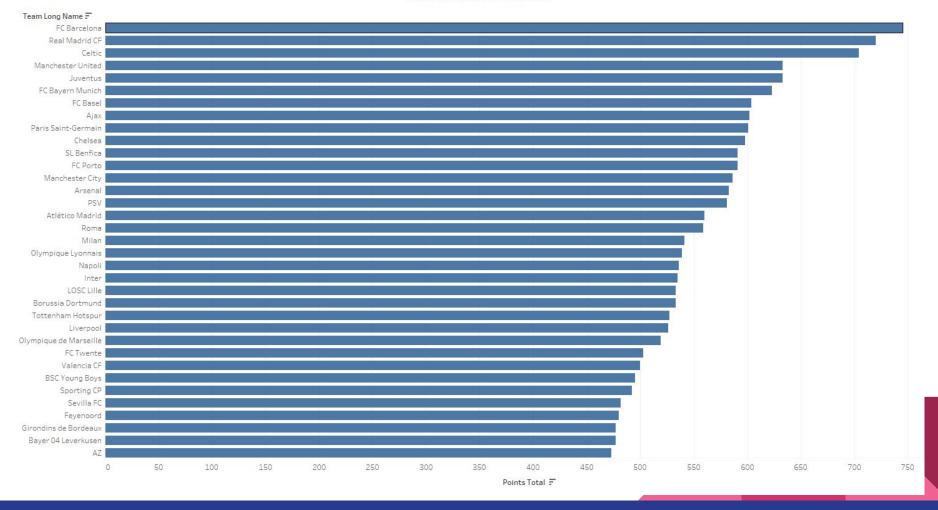
European Soccer Database Project

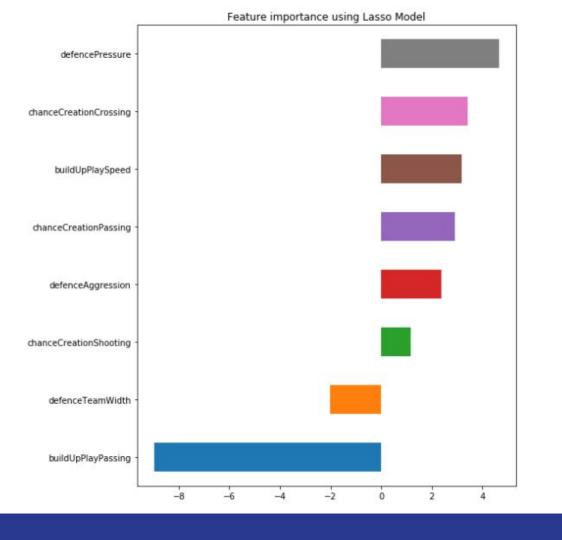
Ben Green

What I did in this project

- First, I explored the data to see what I was working with and what analysis I could perform.
- Then for my first analysis, I got the total points accumulated for each team over all of their matches. Then, I compared that to their Fifa Team statistics.
- To see if there was any correlation between the Fifa Team statistics and total points accumulated, I ran some regressions.
- Next, I took a look at the betting odds given for each game and wanted to determine who gave the worst odds and therefore would be the best to bet with
- After, I looked at the Fifa player attributes and grabbed who was the most improved player over the time the dataset has info for
- Still using the Fifa player attributes I tried to classify the players by position

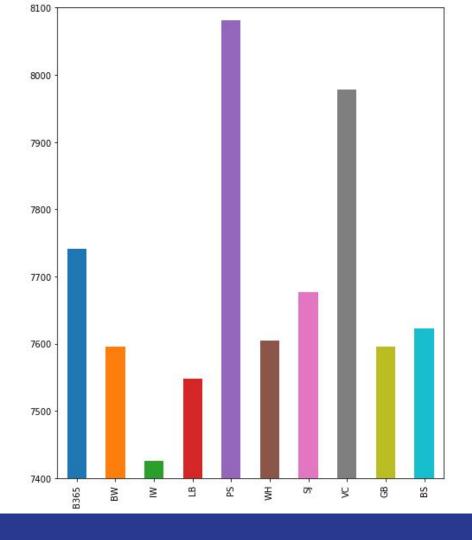
Total Points Accumulated



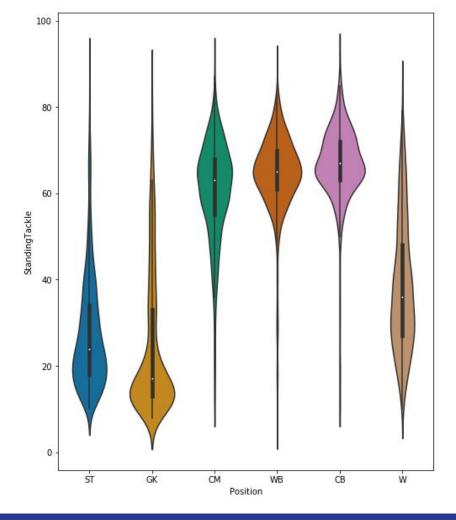


Best Alpha 0.350 Best Score 0.210

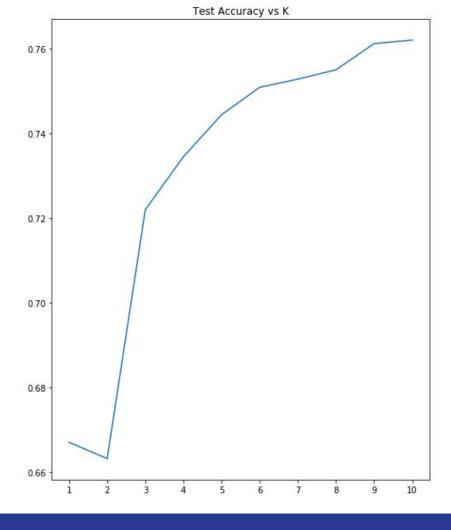
Based on these results, there is no real Correlation between total points and Any of the team attributes. However, the most important features are defencePressure and buildUpPlayPassing



Based on these results, placing a bet with PS Would yield the highest payoff



This graph shows the players grouped by position And their 'StandingTackle' ratings. As you can see, There are some distinct differences with just this One rating. Based on this we suspect we could Predict their position off all the ratings.



This graph shows the accuracy of the prediction based on different K values in the KNN model. As we increase K, we get more accurate with diminishing returns up to 76%

The most accurate model I ran was the logistic regression with an accuracy of 79%