Project One

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“Are the Browns losing seasons a result of the Cleveland Weather?”

Our group took on the task of trying to discover if there was a correlation between the Cleveland Browns performance and the weather in Cleveland. To do this we tried to answer the following questions.

1. Is there a correlation between Browns wins or losses in wet weather in Cleveland, Ohio?
2. Is there a correlation between Browns wins or losses in dry weather in Cleveland, Ohio?
3. Is there a correlation between total rainfall versus Browns total game points?
4. Is there a correlation between temperature versus Browns total game points?

To answer these questions, we had to find weather and football data to analyze. We found historical NFL data sets on Kaggle that contained lots of data on each game. For the weather data we used a weather API to get historical weather data.

Once we found these data sources, we had to trim down some of the data and add some additional data. To start we had to filter the NFL data for only the games played in Cleveland, Ohio. We would use this to gather the weather data along with the date of the game in the NFL data set. We found that with the weather API we could not get historical weather without paying for the data. This caused us to limit the range of game dates that we would use in our analysis. Our final data set consisted of the Cleveland Browns seasons from 1985 through 1994 and the weather of each game.

After we gathered the data for games and weather, we summarized the game outcome based on dry or wet weather conditions. We also summarized the data based on total points scored compared to the amount of rainfall and the temperature. Once we had the data summarized, we were able to plot the data and see if there was a correlation between the outcome of the game and the weather.

In conclusion, we found that there did not appear to be any correlation between the Browns performance and the weather. The outcome of our analysis could be impacted by the years of data that we selected. If we were able to fully utilize the weather API we could have looked at every Browns game and analyzed if there was a correlation between the weather and the outcome of the game.