Super Bowl Winner Prediction

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The purpose of this project would be to train a machine learning model on the stats of NFL teams each year, along with whether or not that team won that year. The goal of the project would be to provide the trained model with a dataset from the most recent season, and have the model provide a prediction of who will win that season.

Some of the features and datasets that could be included are some of the common stats used to measure a team's performance. These could include things like points scored, yards gained, fumbles, interception, field goals, touchdowns, and potentially many other things. I think the most difficult part will be deciding on the most important features to include, or just to include everything. The target variable could potentially either be a yes or no prediction on whether they would win, or perhaps a likelihood of the team winning. I could see pros and cons to either one, but I am more inclined to say that a yes or no would be best. Below is an example of what a dataset might look like, again this is just example dataset, the final version would most likely include more features.

Total Points	Touchdowns	Field Goals	Yards Gained	Interceptions	Fumbles	**Win Prediction**
224	32	10	1110	5	3	**No**

Finding data to use here would not be difficult. The history of the performance of NFL teams has been very well documented since the beginning of the league. If we wanted to, we could even include the stats from the entirety of the history of the NFL. The biggest difficulty, as I mentioned in the previous paragraph, will be deciding which features should be included. We would also have to do all the work to get the data labeled ready for the model to start training on.