

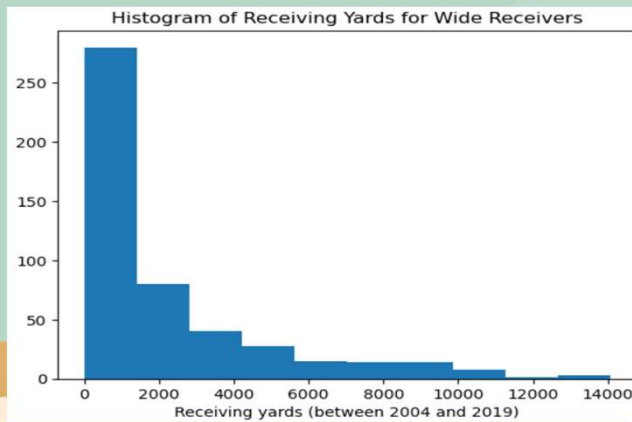
Can NFL Combine Results Predict NFL Success?

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01

Data Collection

I used NFL Combine and game data between 2004 and 2019. I focused on the wide receiver position, using career receiving yards as my target.



02

Preprocessing

I tried multiple different transformations to fix the skewness of the target. These included the log, square root, and Box-Cox transformations.

03

Model Selection

I used three different regression models: linear regression, support vector regression, and random forest regression, with GridSearchCV to test different hyperparameters.

04

Results and Conclusions

With r^2 values hovering around 0, each model was unsuccessful and none of the transformations helped them much. This made sense, as combine results do not tell the full story. I was still able to get which features were weighed the highest by the linear model, which is shown below. In the future, using advanced college statistics as the features or using other measures of success as the target could garner improved results.

