

NBA Player Statistics to Predict Salary



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Web Scrapping with BeautifulSoup



BASKETBALL
REFERENCE



USA TODAY
SPORTSTM

Hypothesis

Stats that Matter?

Points

Efficiency

3-Pointers

Minutes Per Game

Age?

Rookie Contracts

Aging Former Stars

Expect Error

Injuries

New Team Dynamics

Breakout Seasons

Overview

Features Chosen:

- Age
- Field Goal Percentage
- Effective Field Goal Percentage
- Assists
- Rebounds
- Minutes Per Game
- Other Polynomial Features

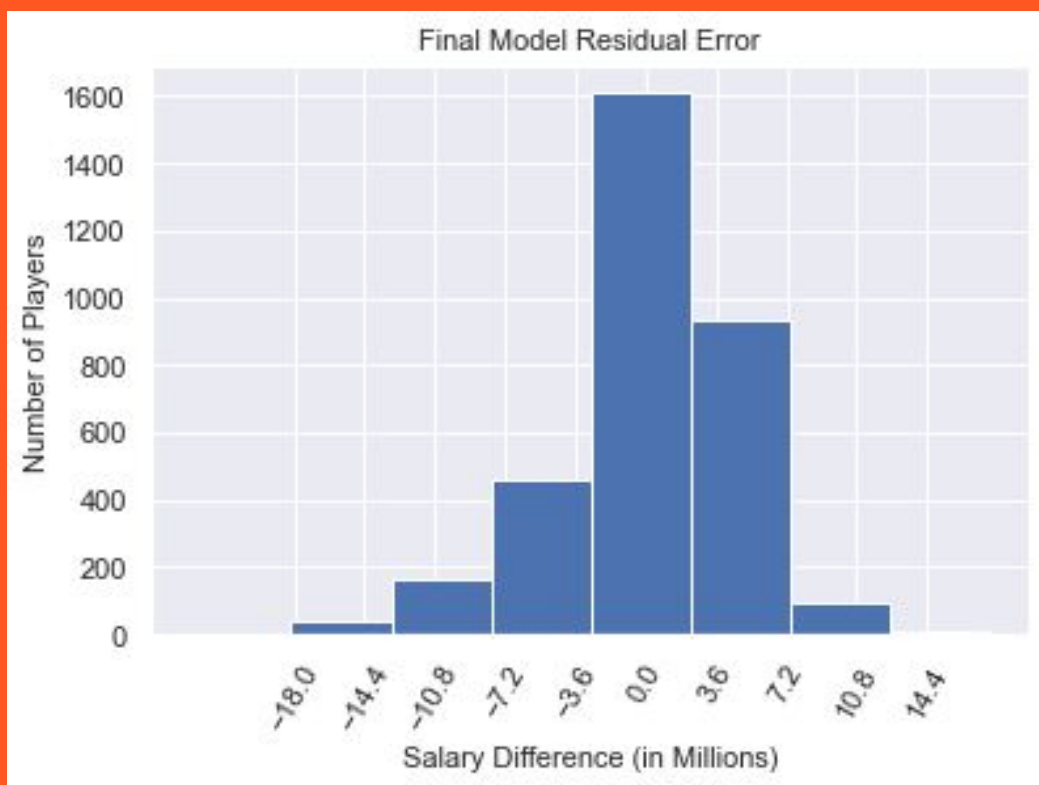
Target:

- Player Salary



Process

- Filtered Out Players
 - < 150 minutes/season
 - < 15 minutes/game
 - Linear Regression
 - Test/Train not random
 - 0.44 R-Squared train
 - 0.47 R-Squared test
 - Polynomial Features
 - 0.55 R-Squared train
 - 0.54 R-Squared test
 - Standard Scaler & Lasso
 - Reduced Features
 - Final Linear Regression
 - Reduced Features
 - 0.50 R-Squared train
 - 0.53 R-Squared test
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Conclusion

Will try more with “Age”

Questions?

- Bucketing in a binary manner?
- Years in the league rather than Age?

