

# NBA Project



# Table of Contents

1

**Goal**

2

**Data & Tools**

3

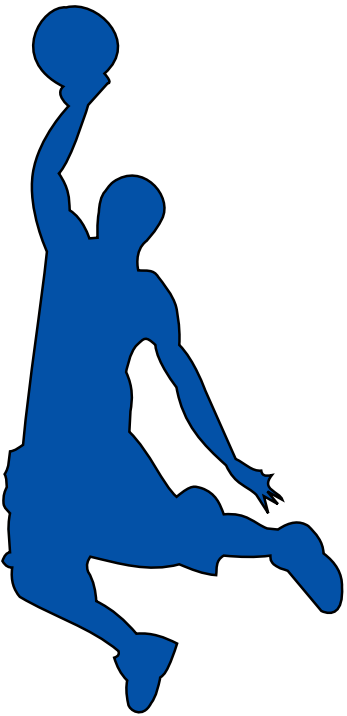
**Results**

4

**Conclusion**

5

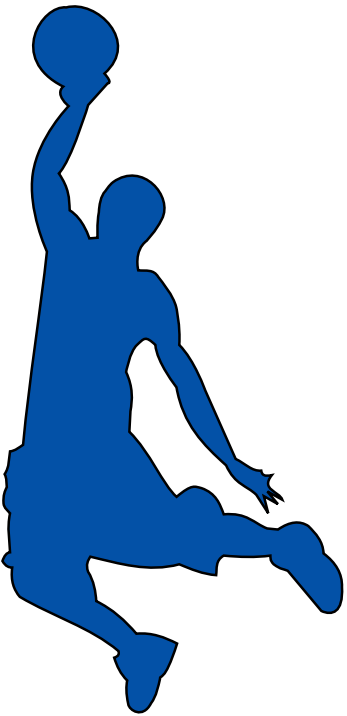
**Future Work**



# Goal



Build a model to predict number of points for players.



# Data

**Player**

**FGM**

**MIN**

**PTS**

**3PM**

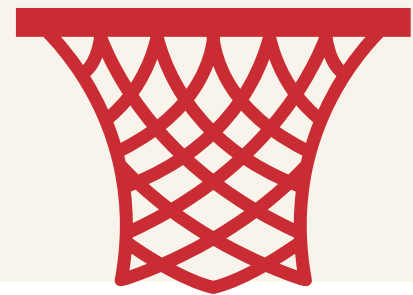
**FP**

**FTM**



# Tools

- Pandas
- NumPy



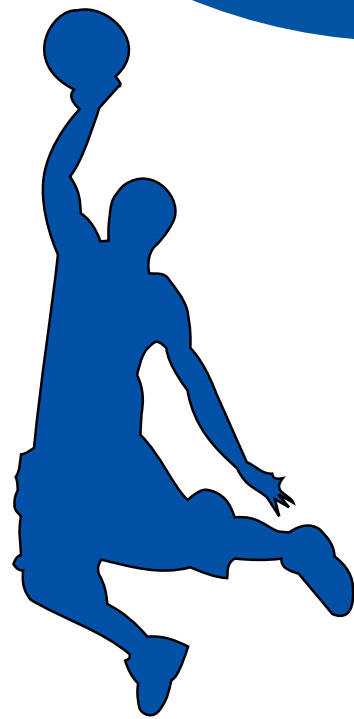
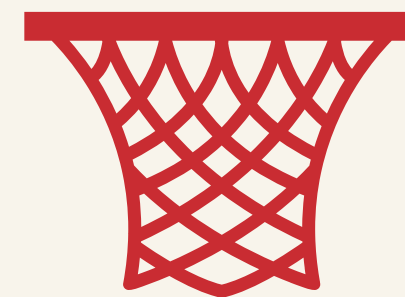
- Selenium
- BeautifulSoup



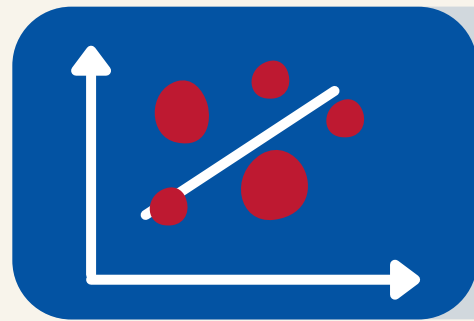
- Seaborn
- Tableau
- matplotlib



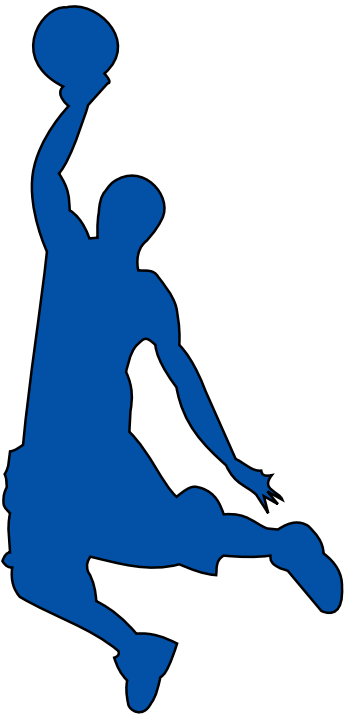
- Sklearn
- Animaker



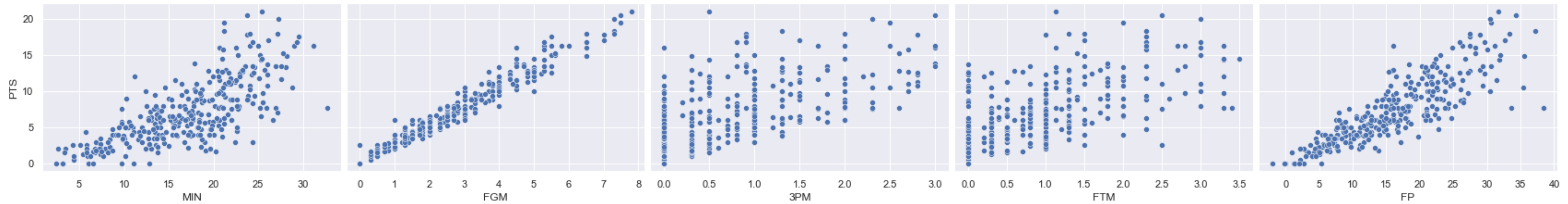
# Results



Build  
linear regression model



Target



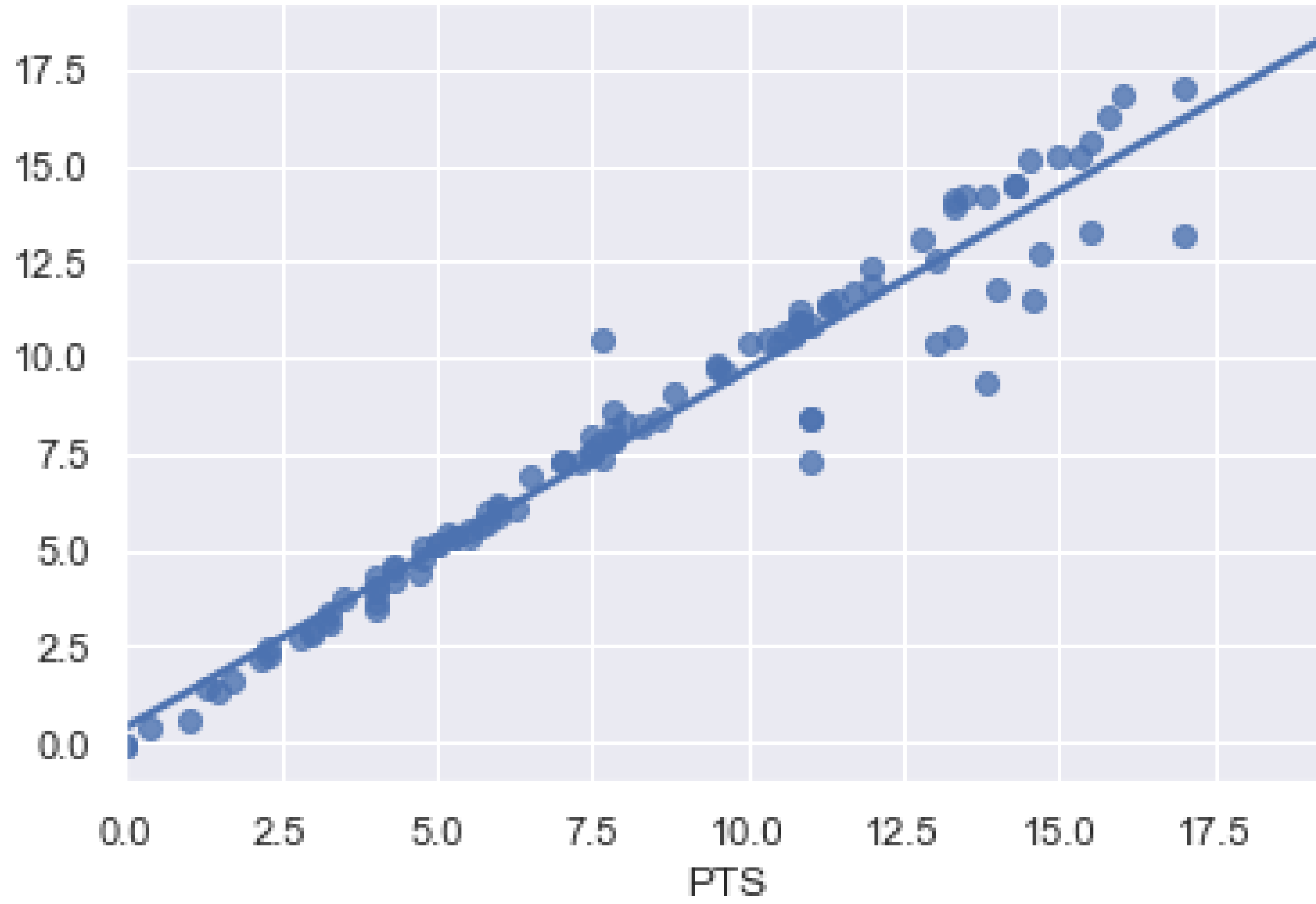
Features

# Linear Regression Models

| # of Models    | R Squared       | MAE             | MSE             | RMSE            |
|----------------|-----------------|-----------------|-----------------|-----------------|
| Model 1        | 0.440002        | 2.762713        | 11.693917       | 3.419637        |
| Model 2        | 0.932539        | 0.894579        | 1.408732        | 1.186900        |
| Model 3        | 0.217894        | 3.076238        | 16.331983       | 4.041285        |
| Model 4        | 0.209180        | 3.332269        | 16.513945       | 4.063735        |
| Model 5        | 0.623489        | 2.027554        | 7.862318        | 2.803983        |
| <b>Model 6</b> | <b>0.946808</b> | <b>0.529868</b> | <b>1.110750</b> | <b>1.053921</b> |
| Model 7        | 0.935802        | 0.891730        | 1.340594        | 1.157840        |
| Model 8        | 0.931737        | 0.927569        | 1.425462        | 1.193927        |
| Model 9        | 0.936611        | 0.833512        | 1.323683        | 1.150514        |



# Model 6 on Validation Set

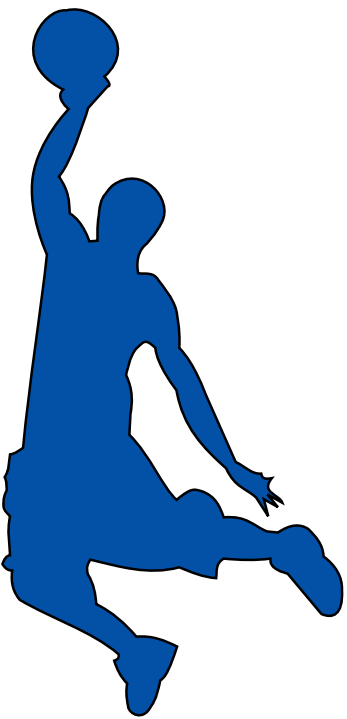


MIN

# Conclusion

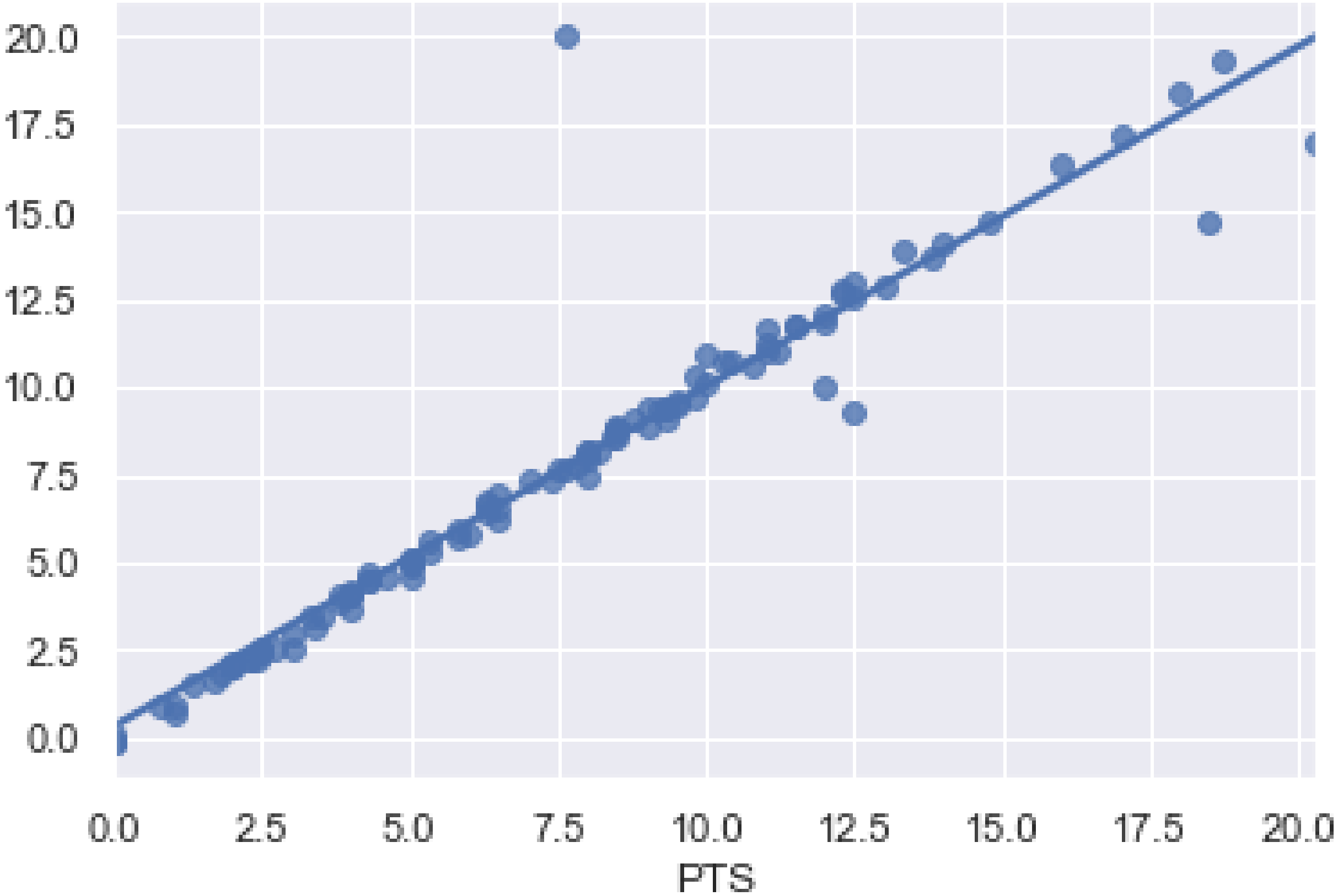


Predictions on  
the test set



# Model 6 on Test Set

PTS  
Predicted  
Value



Actual Value

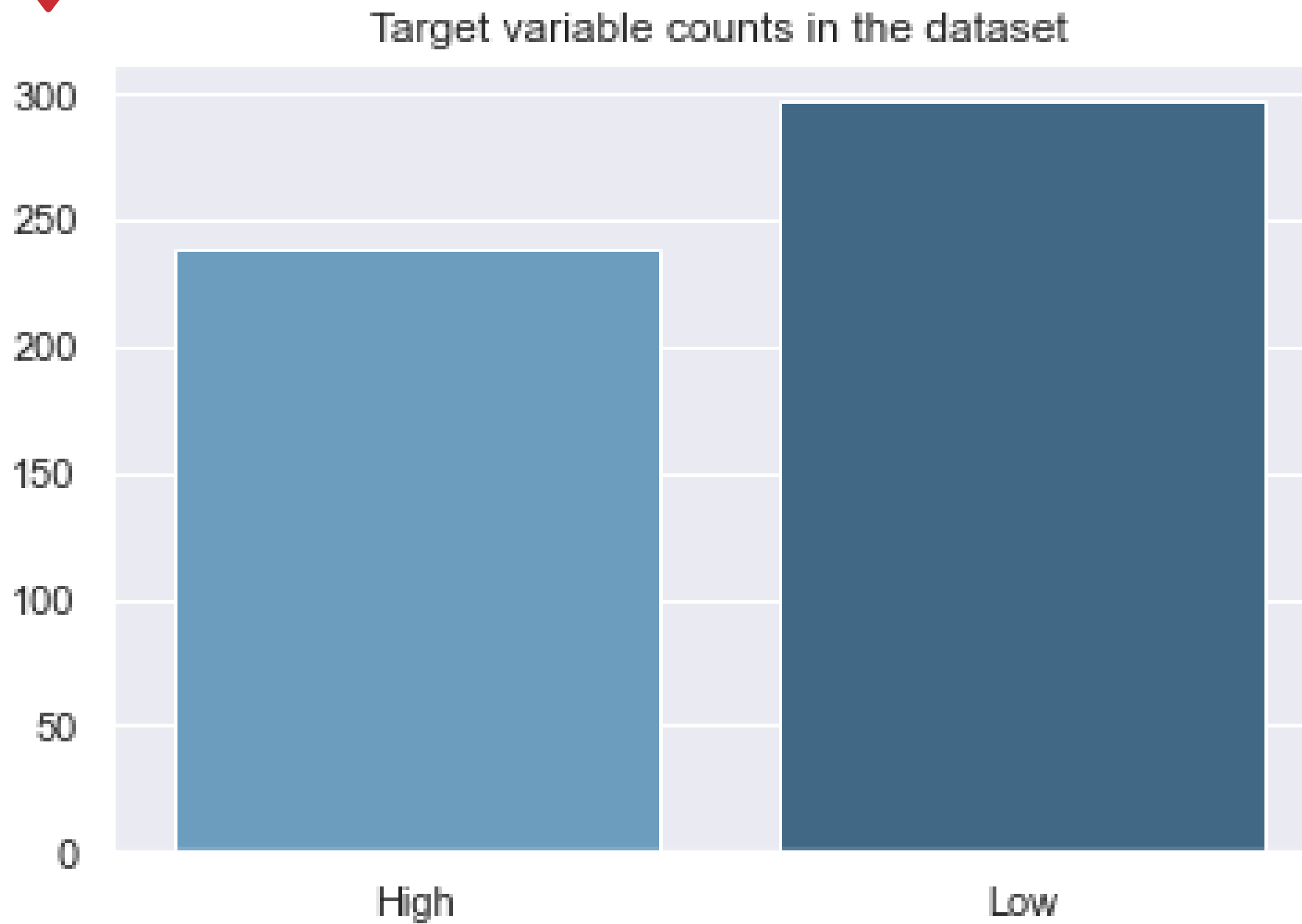
# Future Work



Build Classification  
Model

# Classification Model

Counts



Points Class

# NBA Model



**Thank you..**

**Any questions?**



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data scientist