

The Team



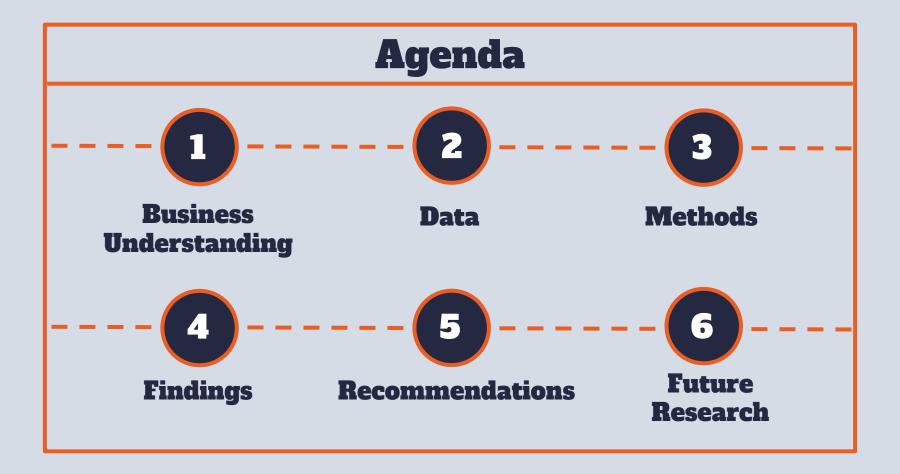


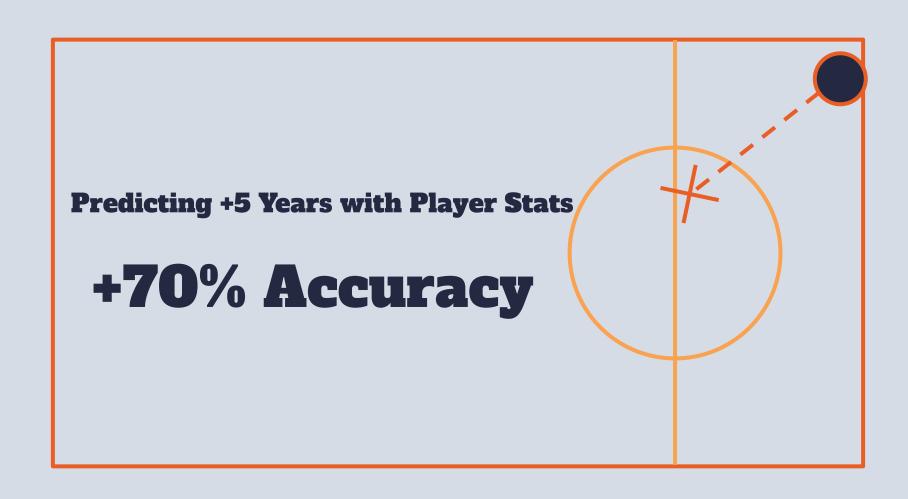


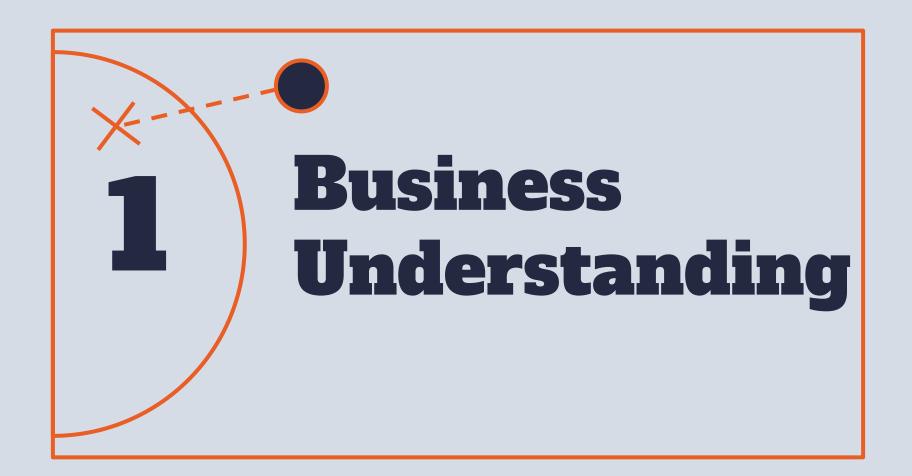
Isaac Barrera

Seraj Khazei

Chris O'Malley







The Problem

The Goal

Foresee rookies long term success

Identify key
 features that lead
 to a longer career

Data

NBA Rookie Stats 1st Season 1980 - 2012

Blocks Per Game

Steals Per Game

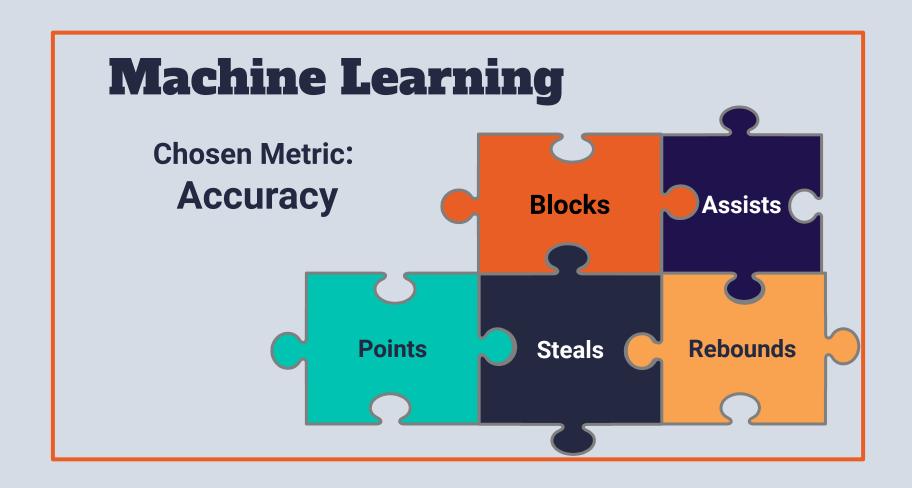
Rebounds Per Game

Assist Per Game

Points Per Game

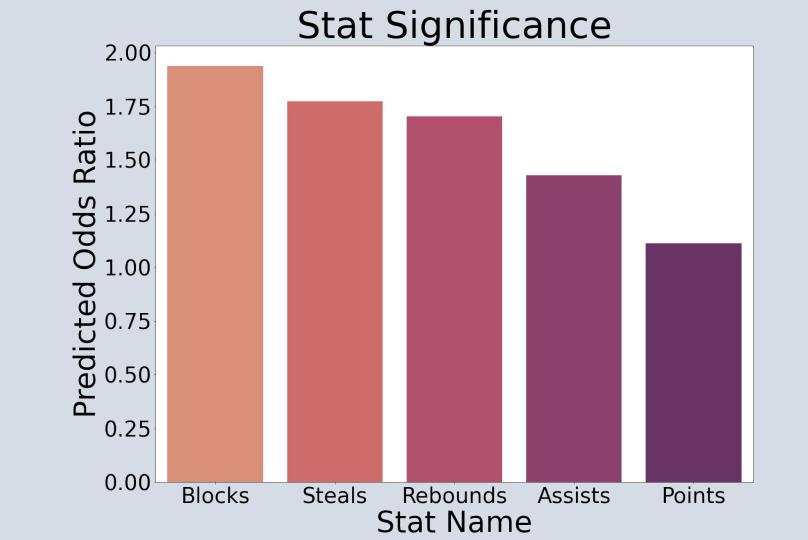


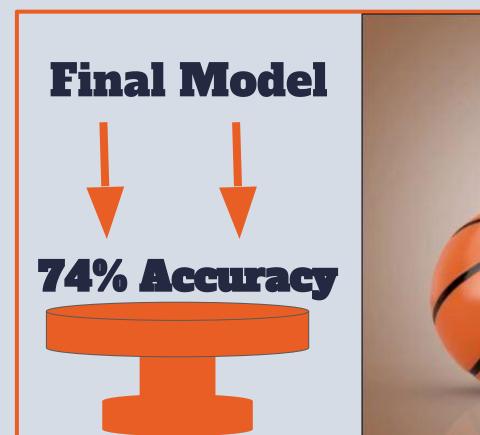




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Findings







Recommendations

Recommendations

- Key attributes (per game)
 - Blocks
 - Steals
 - Rebounds
 - Assists
 - Points
- Focus on defense



Future Research

Possible research in the future

NBA NBA

- Draft pick
- Financial impact
- Injuries
- Evolution of the game



Thank You!





Questions?

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Appendix

Sources

Datasets:

- Nba-players.csv
 - https://www.kaggle.com/sveneschlbeck/nba-players-career-duration
- NBA Rookies by Year.xlsx
 - https://data.world/gmoney/nba-rookies-by-min-1980-2016

Original Source

Web-Scraped from https://www.nba.com/stats/

Accuracy Equation

$$Accuracy = \frac{CorrectPrediction}{CorrectPrediction + IncorrectPrediction}$$

$$Accuracy Formula$$

$$Accuracy = \frac{TruePositive + TrueNegative}{TruePositive + FalsePositive + TrueNegative + FalseNegative}$$

Field Goal Equation

$$FG\% = \frac{BasketsMade}{BasketsAttempted}$$

Feature Importance

$$\hat{I_{j}^{2}}(T) = \sum_{t=1}^{J-1} \hat{i_{t}^{2}} 1(v_{t} = j)$$

Odds

$$\frac{\text{ODDS} = \frac{\text{Probability of winning}}{\text{Probability of losing}} = \frac{p}{1-p}$$

Where p = probability of winning (event occurring)