

# Hunn Analytics: Predicting MLB Wins & Salary

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# Overview

- Introduction
- Business Problem
- Data Overview
- Models & Metrics
- Findings & Recommendations
- Conclusion & Questions



# Introduction

Hometown: Arlington, Tx

- Worked with multiple S&P 500 companies & startups
- Lived in 3 different countries and fluent in Spanish
- Some passions of mine are options trading, technical diving, and amateur art





“The problem we're trying to solve is that there are rich teams and there are poor teams. Then there's fifty feet of crap, and then there's us. It's an unfair game. And now we've been gutted.”

- Billy Beane (Moneyball)



# Data Overview

- Season Statistics from 2016 to 2022
- Fielding, Batting, Pitching, and Salary
- 22k unique statistics\*

[www.baseball-reference.com/](http://www.baseball-reference.com/)  
[www.thebaseballcube.com/](http://www.thebaseballcube.com/)



# Modeling

Fielding

Batting

Models

Pitching

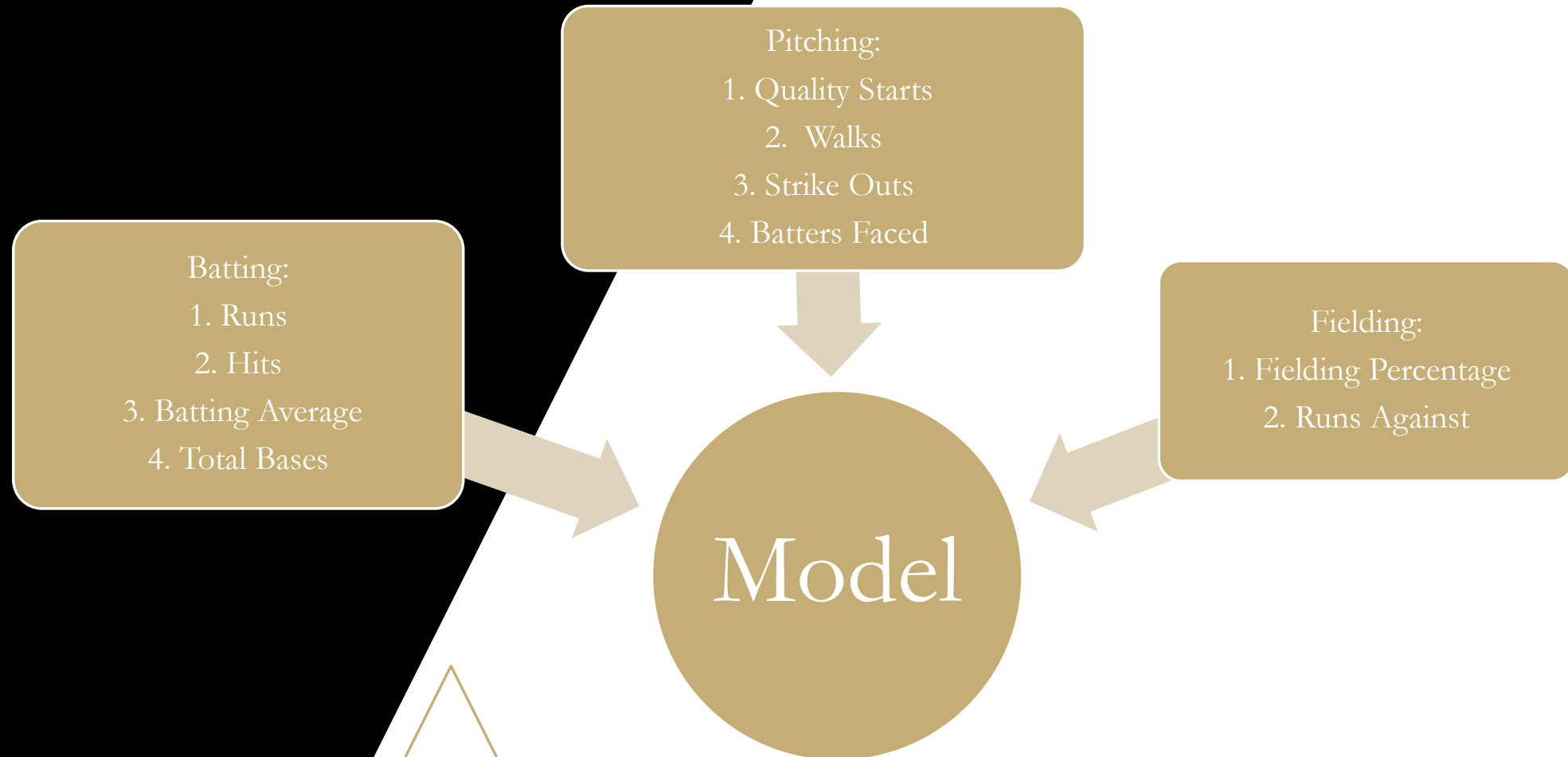
Salary

# Win percentage

Model features accounted for 90%  
Win Percentage:  $\pm 2.25\%$

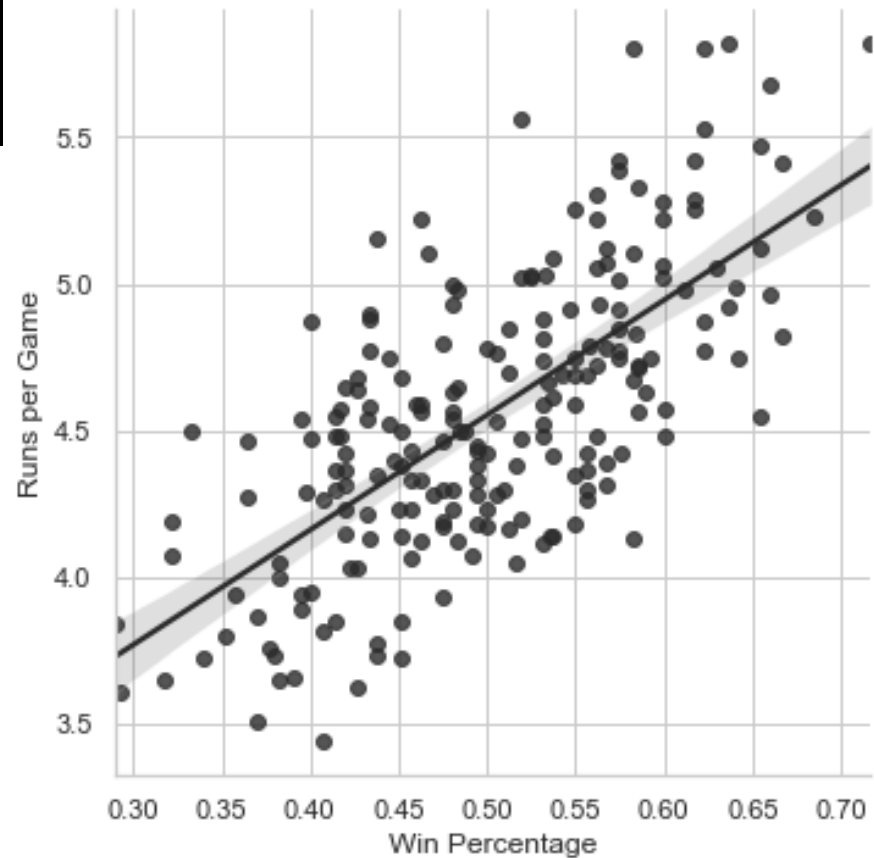
# Win Total

Model features accounted for 96%  
Win Total:  $\pm 3.96$

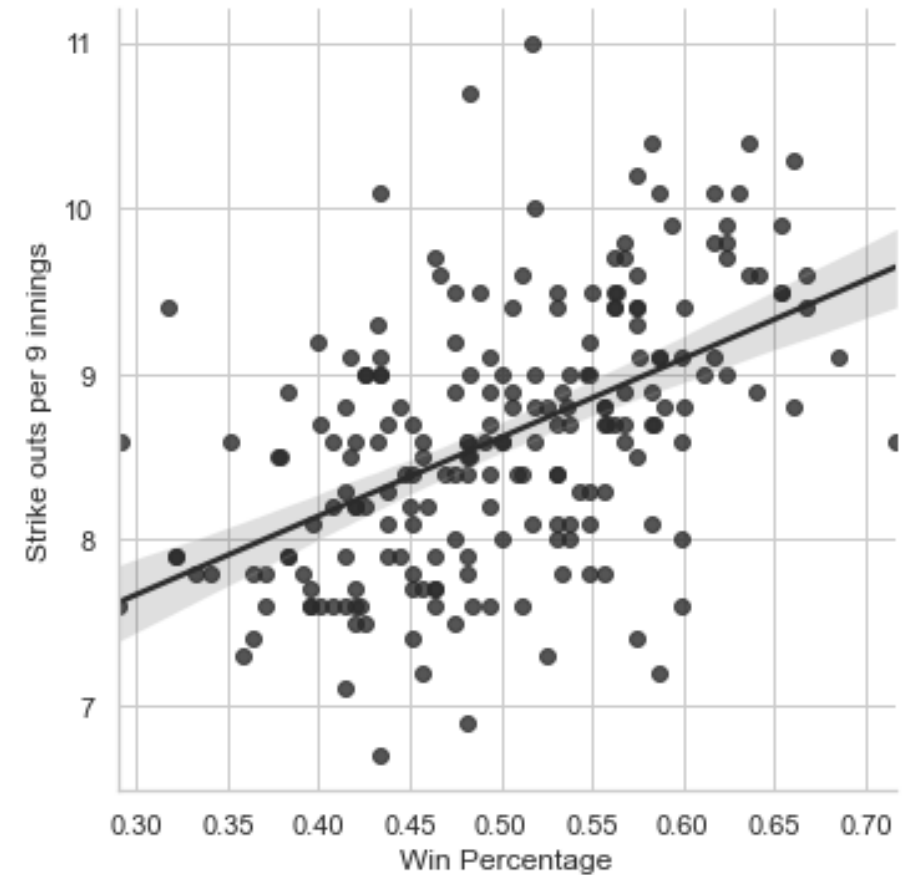


# Best Fit Line of Key Features

## Runs per game & Win Percentage



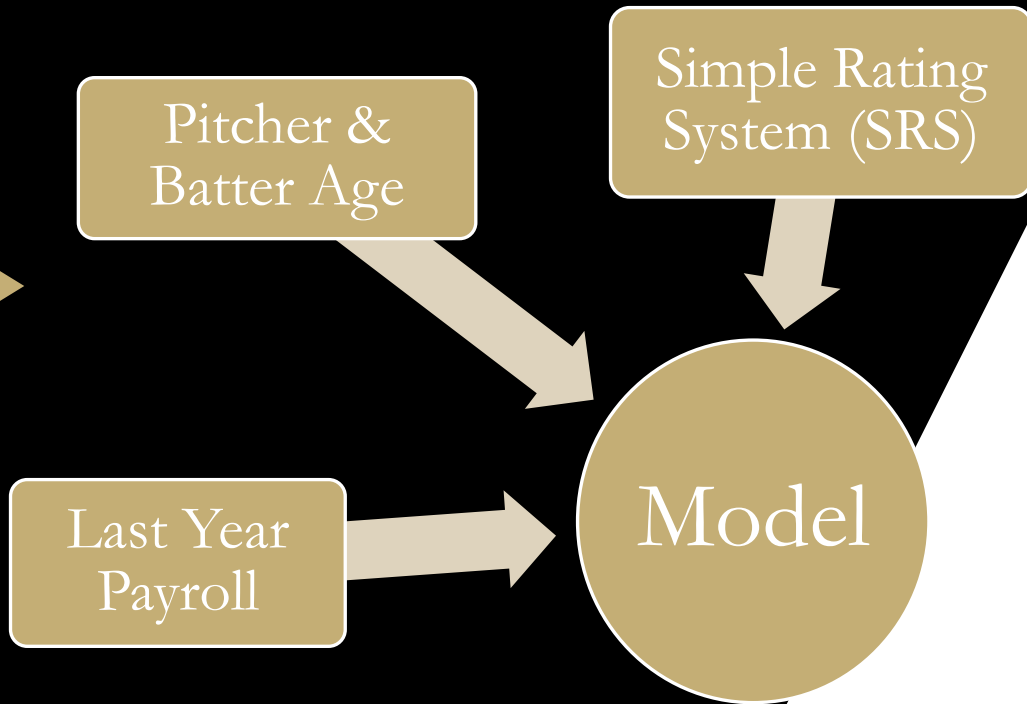
## Strike outs per game & Win Percentage





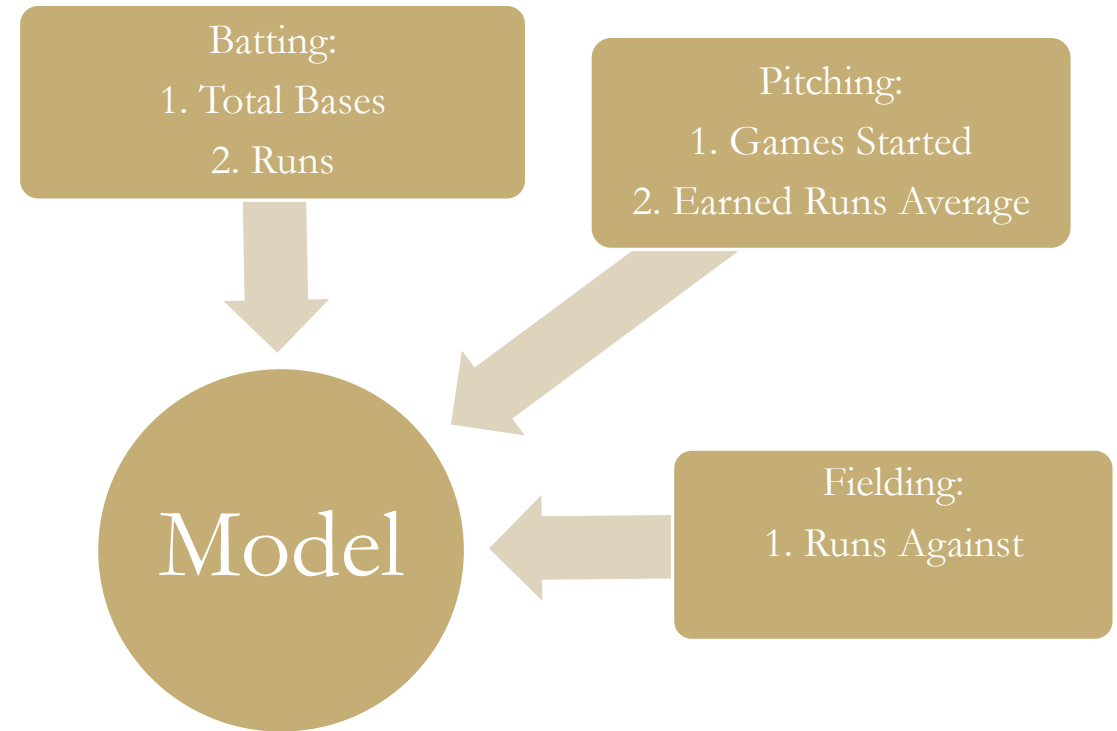
# Yearly Salary

Model accounted for 77% of Salary  
Salary: +- 25 mil

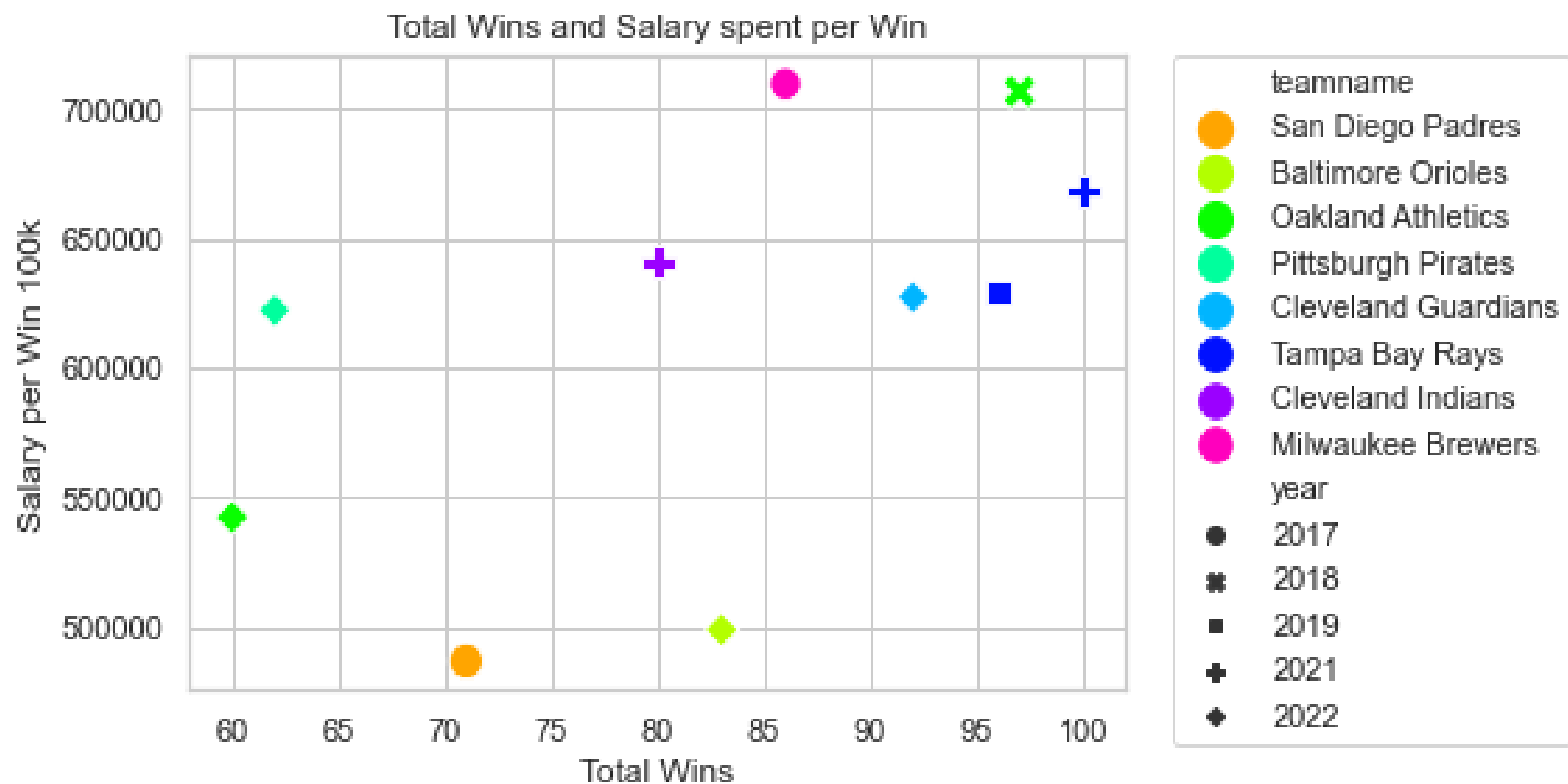


# Salary per win

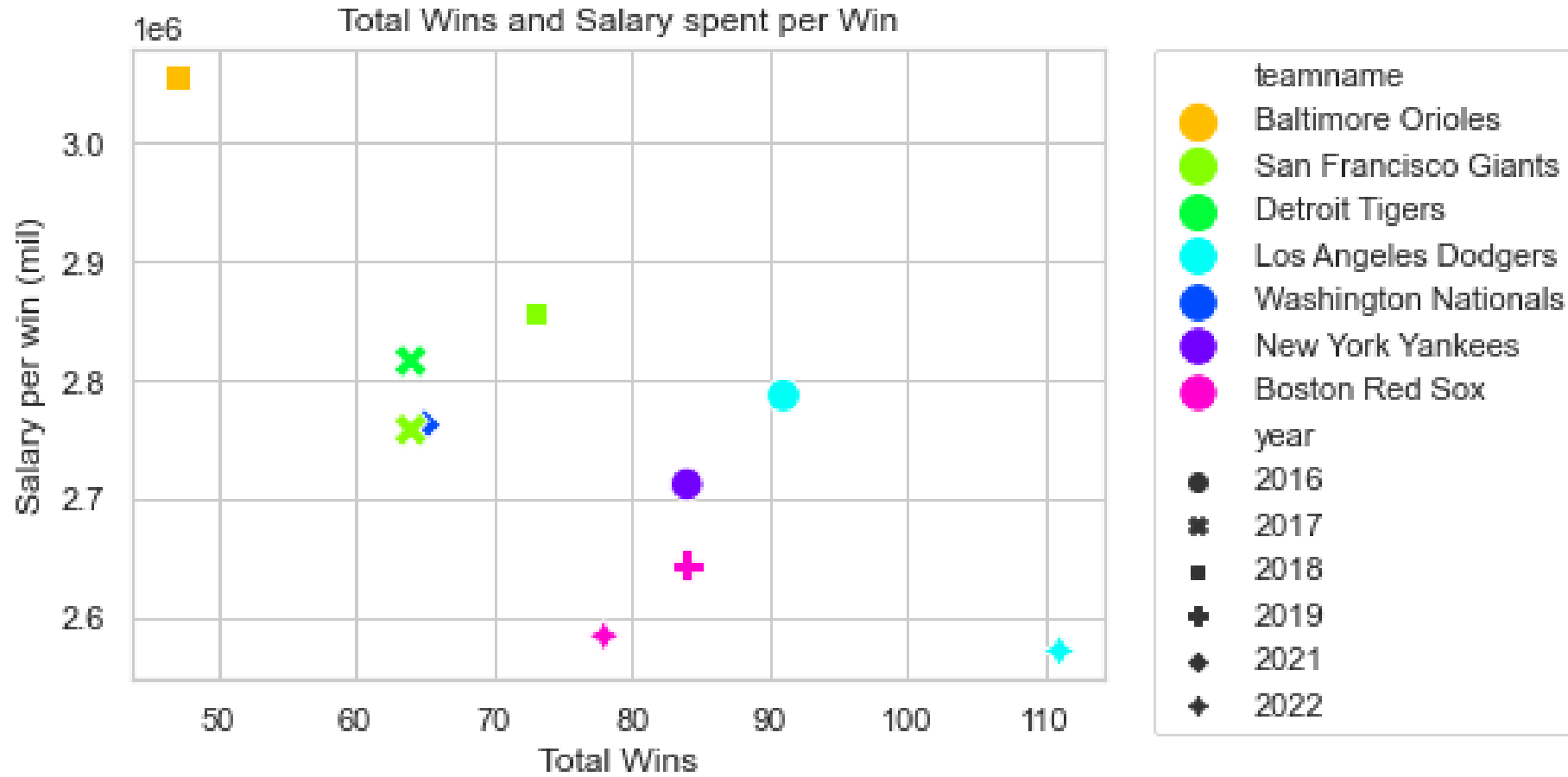
Model accounted for 61% of salary per win  
Salary per win: +- 760k



# Most Efficient Teams



# Least Efficient Teams







# Findings

## THE BEST INDICATORS FOR WINS

1. Runs, Hits, Batting Average, and Total Bases
2. Quality Starts, Walks, Strike Outs
3. Fielding Percentage

## THE BEST INDICATORS FOR SALARY

1. Last Years Salary
2. Batter and Pitcher Age
3. SRS (On a neutral field how strong is this expected team)

# Recommendations

## **One:**

Focus on batter production and pitcher quality for wins

## **Two:**

Focus on keeping organization young and drafting well for salary optimization

# Thank You



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