



# *Predicting MLB Free Agent Salaries*

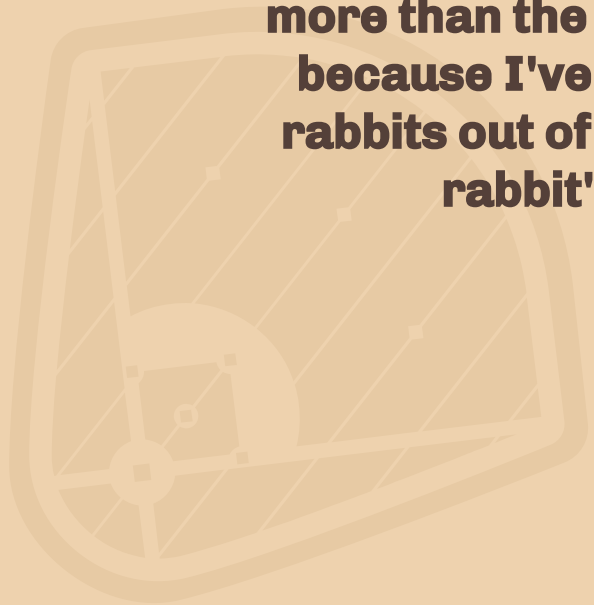
Jordan Kominsky



“

**The idea that I should trust my eyes more than the stats, I don't buy that because I've seen magicians pull rabbits out of hats and I know that rabbit's not in there.**”

**—Billy Beane, Executive  
Vice President of Baseball  
Operations, Oakland  
Athletics**



# Overview

01

*Business  
Problem*

*Data  
Understanding*

02

03

*Methods +  
Modeling*

*App Demo*

04

05

*Next Steps*

01

# *Business Problem*

- Bad advice from agents
- Money left on the table
- Accurate salary predictions



# 02

## *Data Understanding*

- Kaggle.com
- Cot's Baseball Contracts
- The Baseball Cube



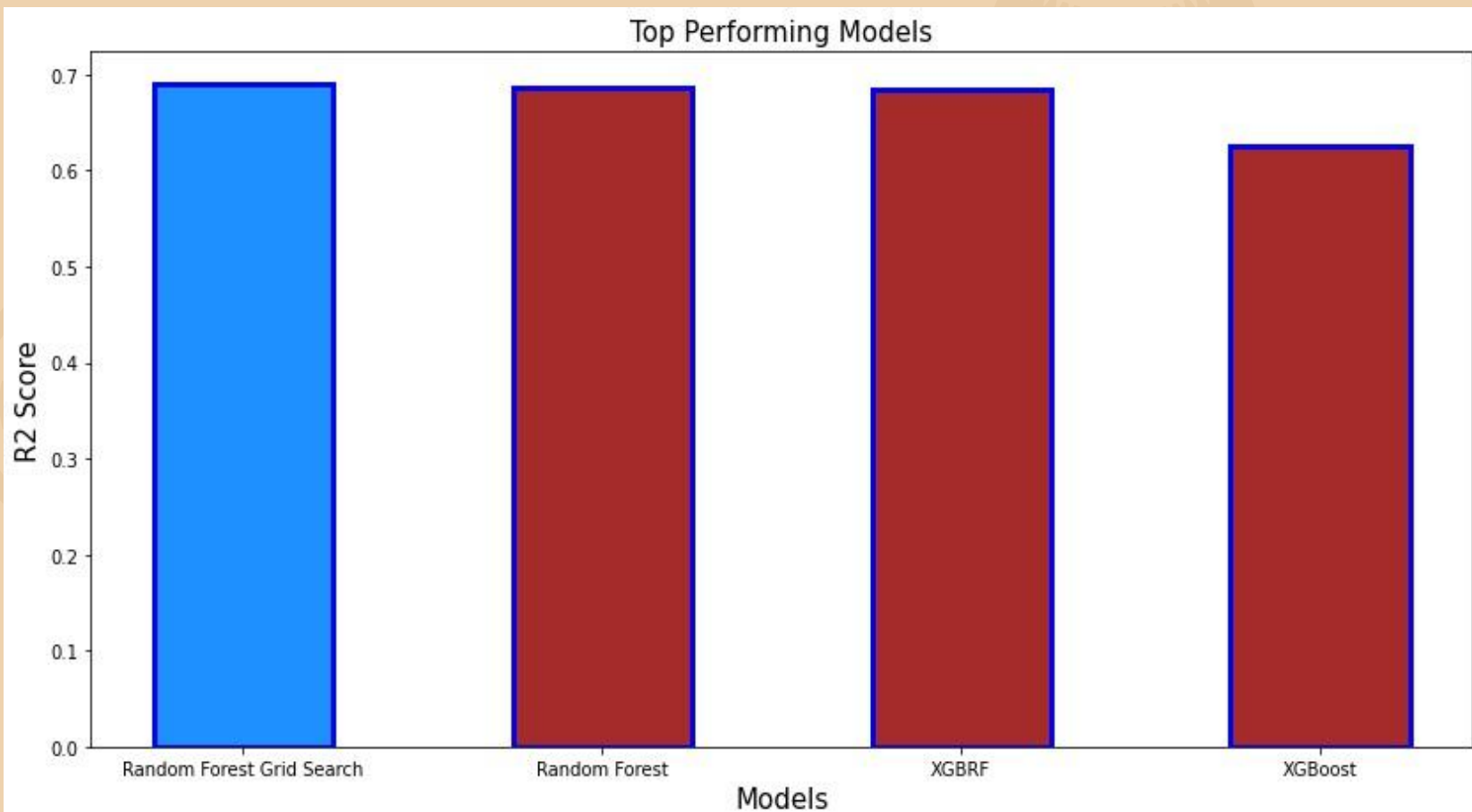
03

## *Methods*

- 1984-2021
- 6+ seasons
- Regression Models
- R-squared and RMSE

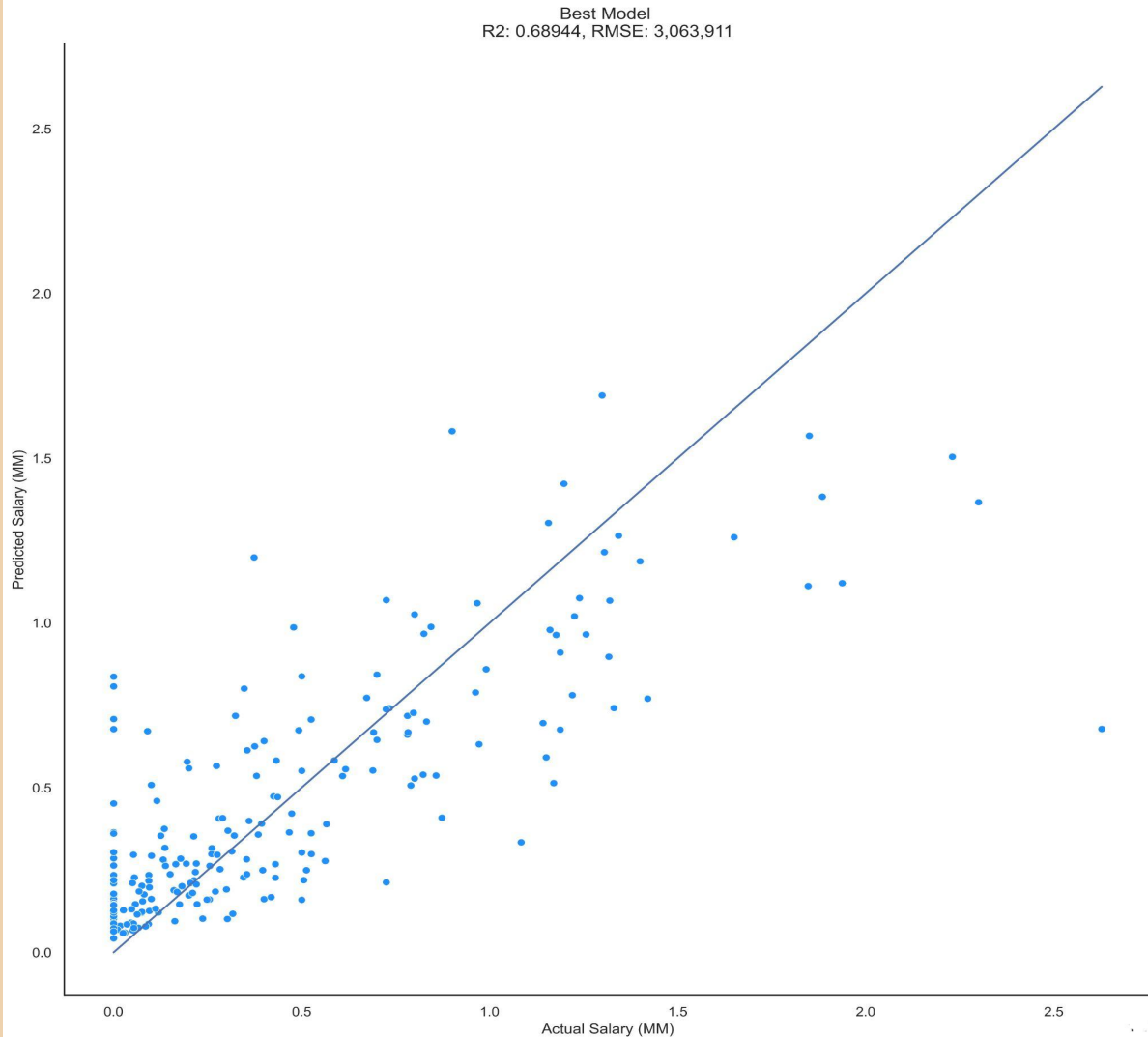


# Model Comparison



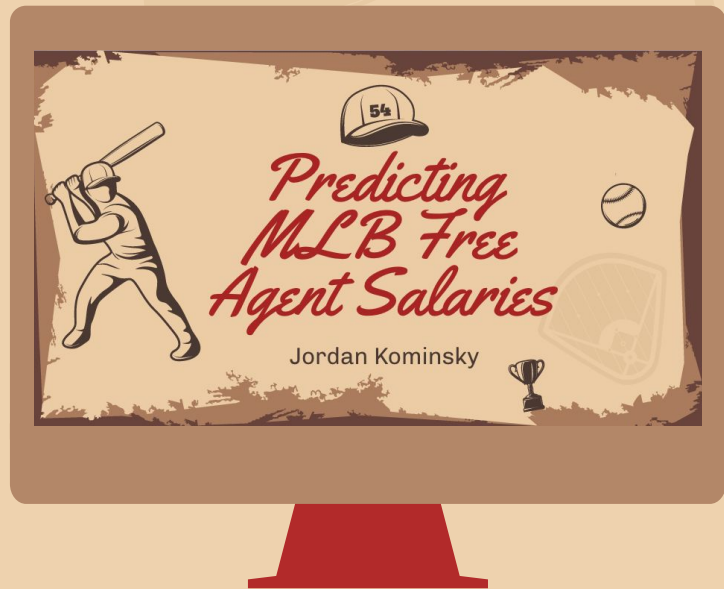
# *Best Model*

- Random Forest Gridsearch
- $R^2 = 0.68944$
- RMSE = 3,063,911





04



App Demo

Q5

## *Next Steps*



1

Pandemic  
Shortened  
Season

2

Detrend  
salary data

3

Service  
time data

4

Fielding  
data



# *Thanks!*

Do you have any questions?

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