

# NFL Salary Cap Optimization

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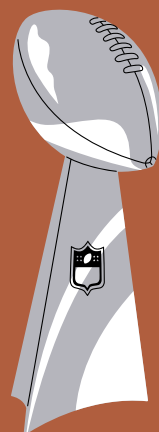
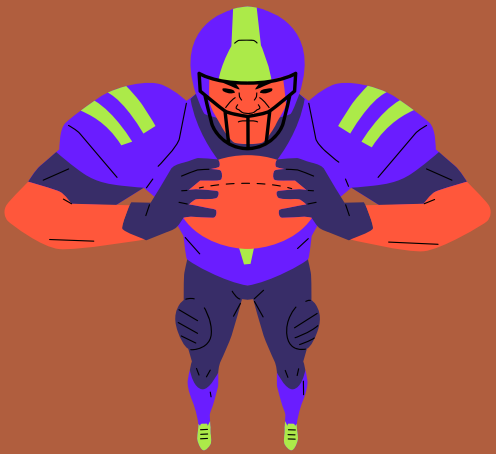


# Credentials

- 10+ Years in Acct/Finance
- Flatiron Data Scientist Graduate
- Sports/Statistics Enthusiast
- New Father



# Presentation Overview



# Business Understanding



1

Highly Competitive Performance Based Industry

2

Spending Limits on Players (Salary Cap)

3

Regular Season Win% Highly Tied to Revenue





# Data Overview



1

NFL Player Contract, Player Position and Team Performance  
Scraped from Sportrac.com

2

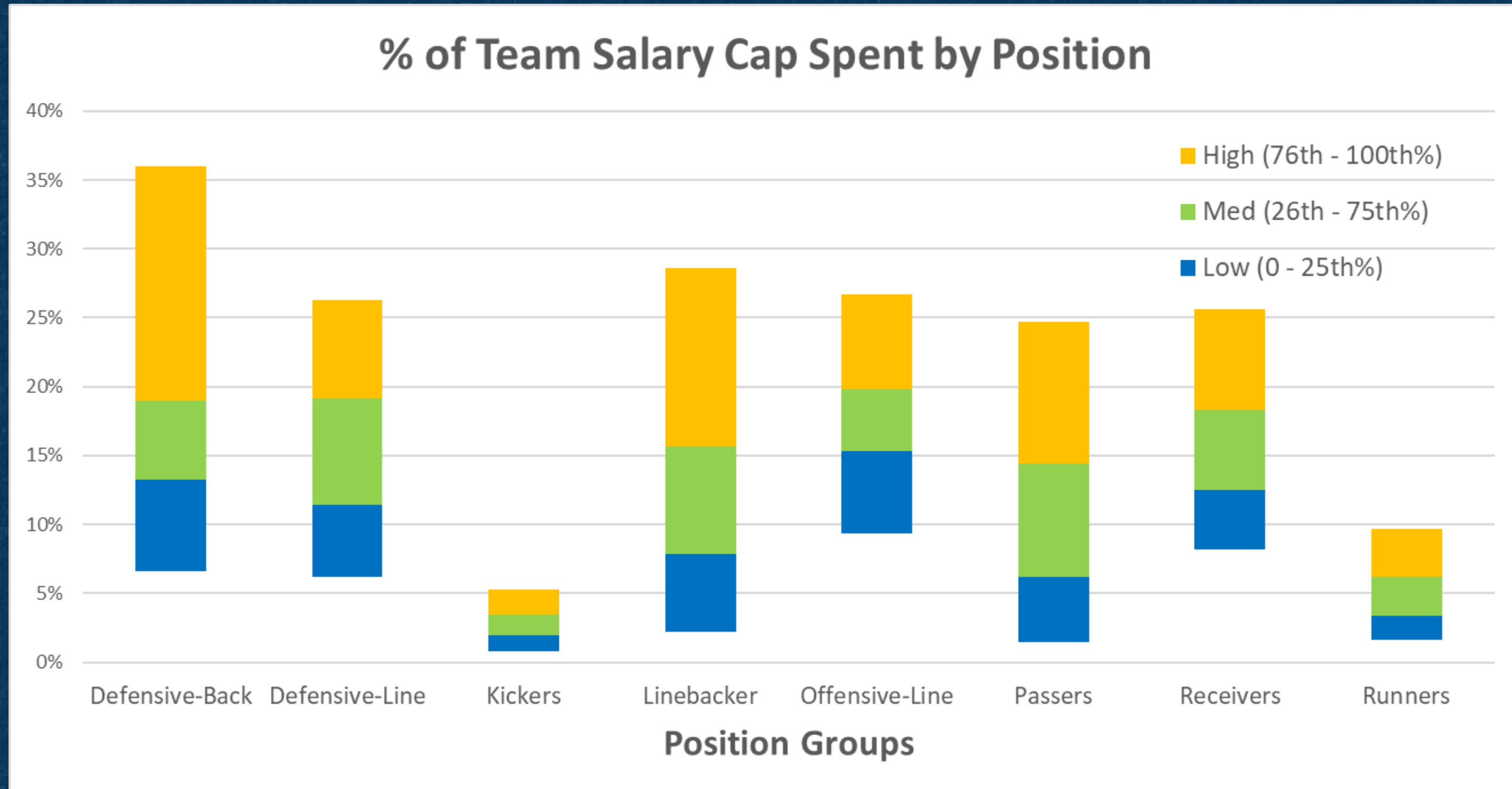
Includes Players No Longer Playing (injury, trade, cut)

3

Regular Season Win% and Amount Spent on Position Group  
Categorized in High, Average and Low.



# Team Spending



# Data Limitations



1

Paywall Restricts Dataset to Last 3 Years

2

Dataset Doesn't Factor in Player Performance

3

Dataset Includes All Player Salary Cap Hits





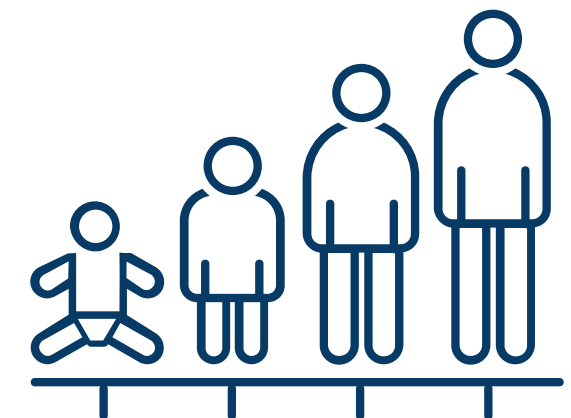
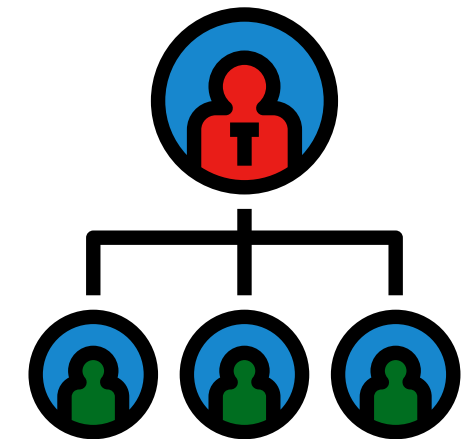
# Modeling

## Model Takes In

- Player Status
- Player Position
- Cap% Spent
- Player Age

## Model Predicts

- High Win%
- 96% Accuracy!





# Reccomendations

Spend High



Defensive Line  
Offensive Line

Spend Average



Receivers  
Kickers

Avoid



Low \$ Kickers  
Low \$ Receivers

# Future Analysis



Restrict Data to  
Active Players

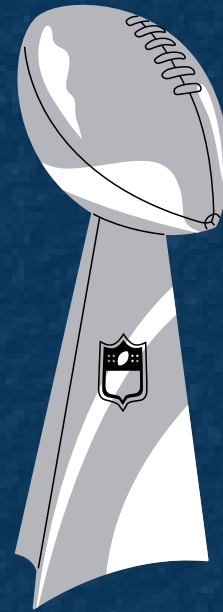


Add More Years  
to Dataset



Incorporate Player  
Performance

# Thank You!



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