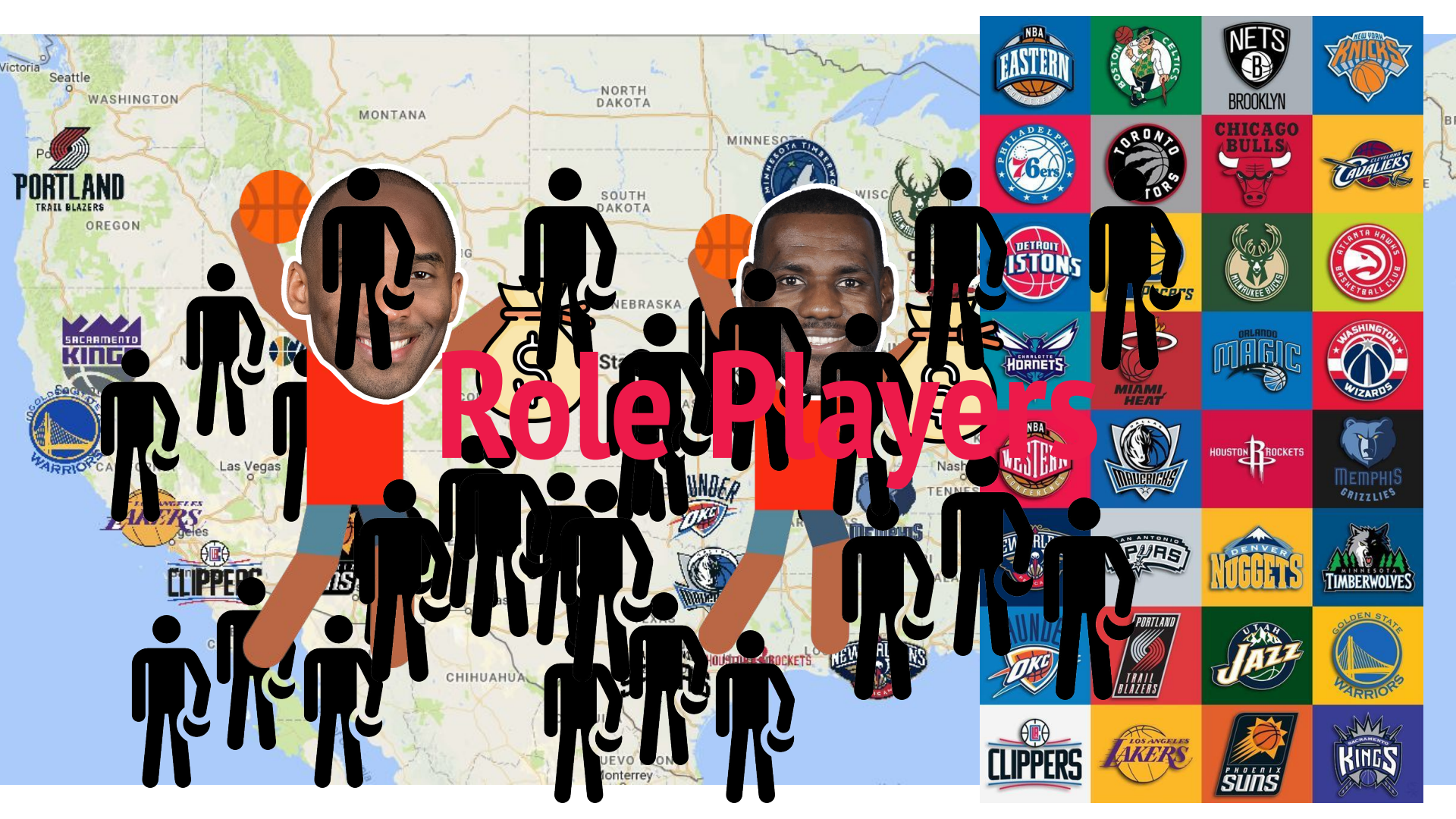
NBA Career Length Projection

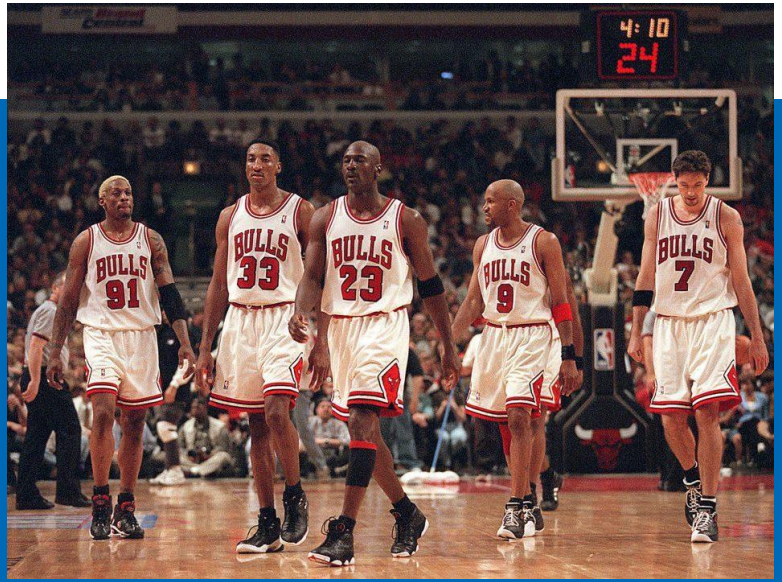
Predicting Length of Players' Careers with Machine Learning

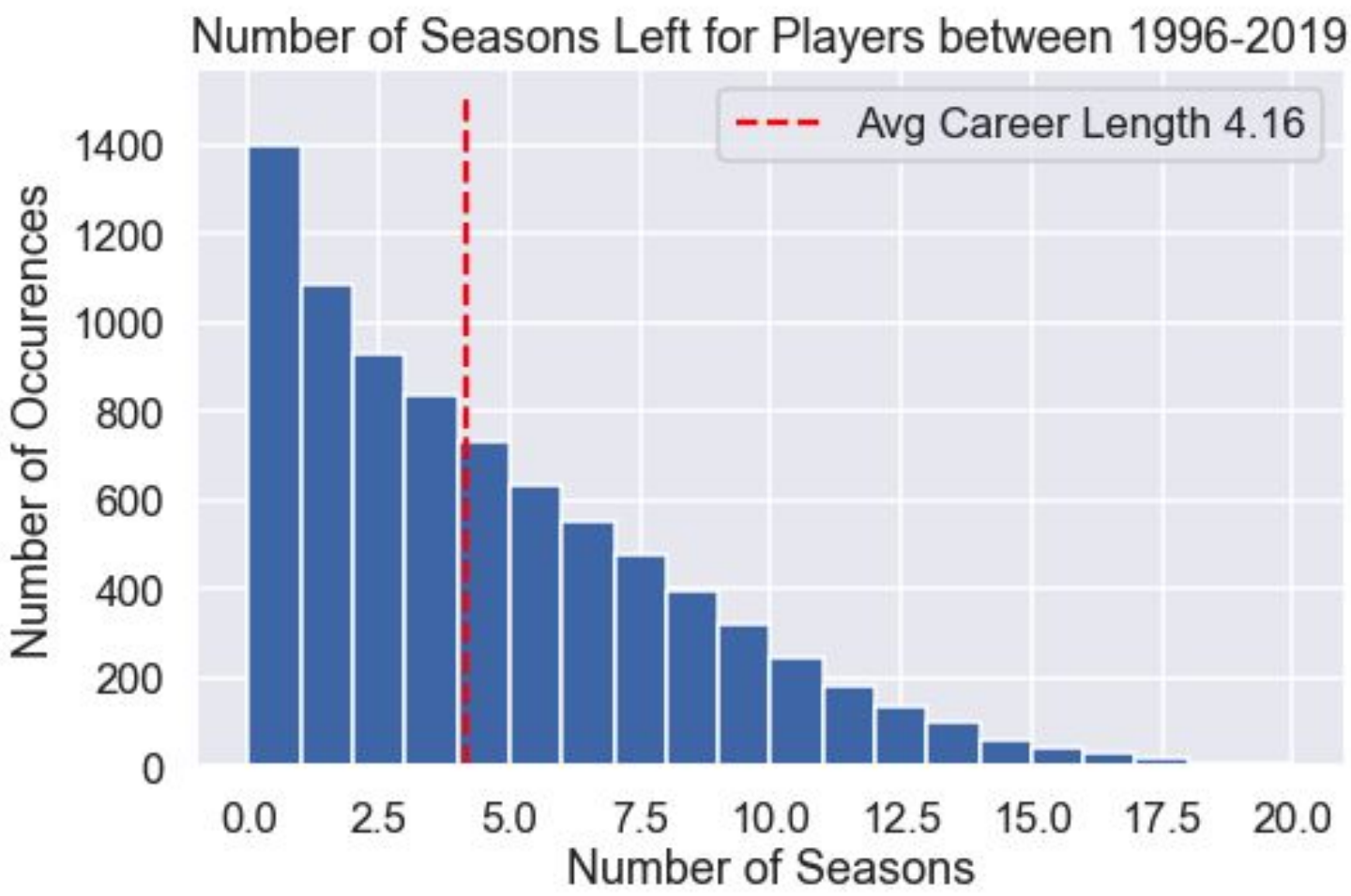
By Nick Pardue

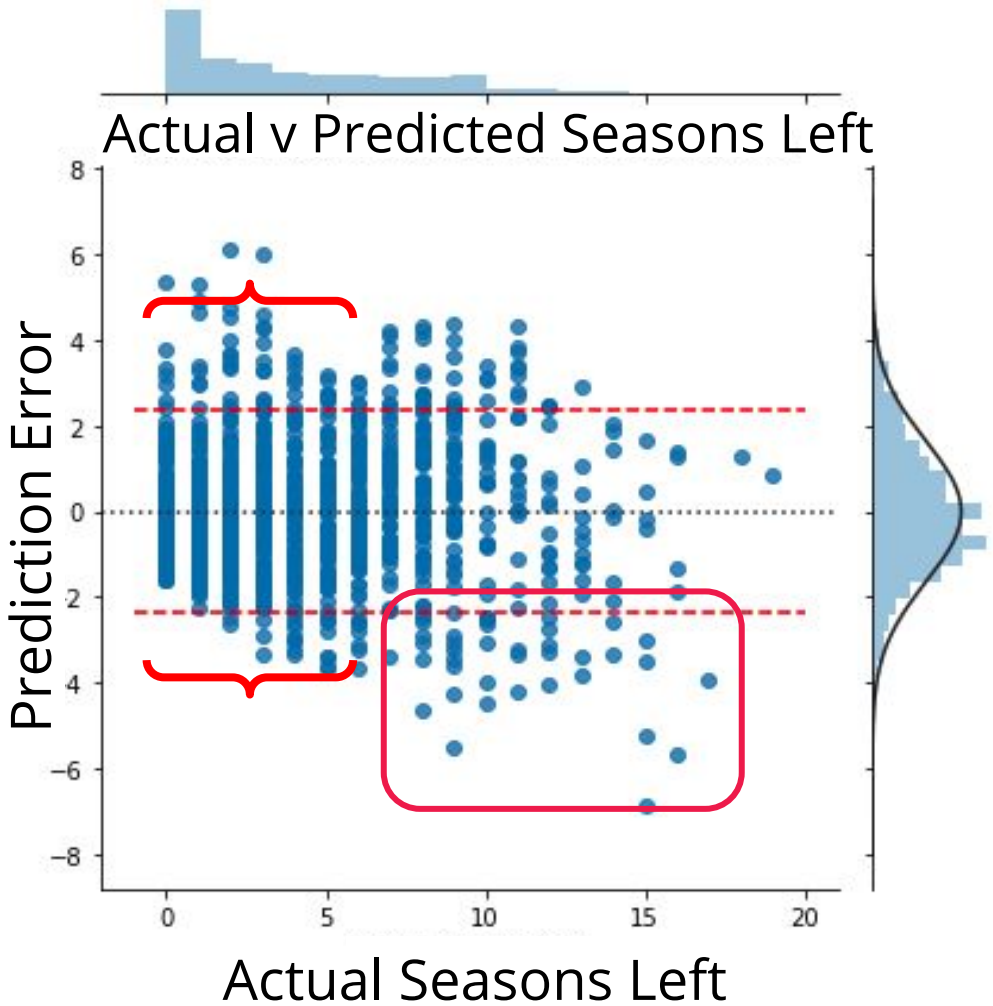

Role Players
NBA EASTERN
BOSTON CELTICS
NETS
BROOKLYN
NEW YORK KNICKS
PHILADELPHIA 76ers
TORONTO RAPTORS
CHICAGO BULLS
CLEVELAND CAVALIERS
DETROIT PISTONS
MILWAUKEE BUCKS
ATLANTA HAWKS
BASKETBALL CLUB
CHARLOTTE HORNETS
MIAMI HEAT
ORLANDO MAGIC
WASHINGTON WIZARDS
NBA WESTERN
MAVERICKS
HOUSTON ROCKETS
MEMPHIS GRIZZLIES
DENVER NUGGETS
MINNESOTA TIMBERWOLVES
OKC
PORTLAND TRAIL BLAZERS
UTAH JAZZ
GOLDEN STATE WARRIORS
CLIPPERS
LOS ANGELES LAKERS
PHOENIX SUNS
SACRAMENTO KINGS

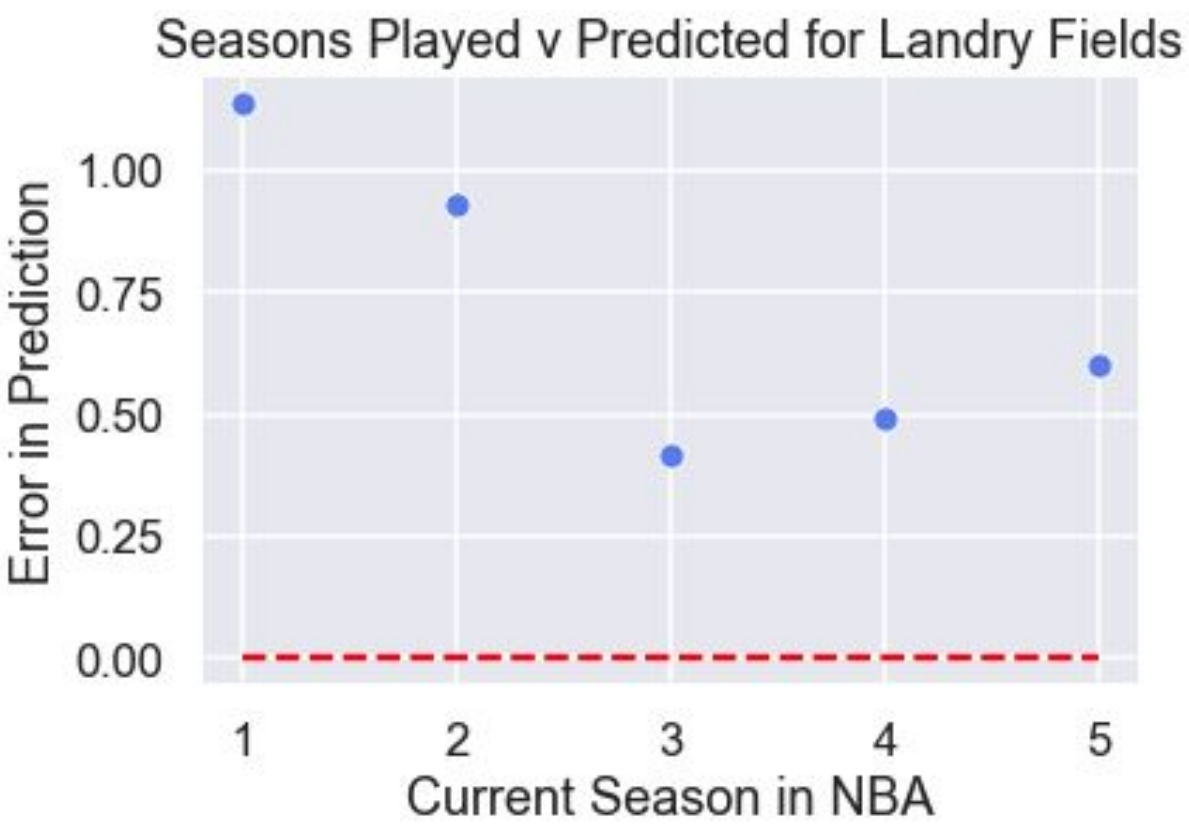
BASKETBALL REFERENCE

kaggle

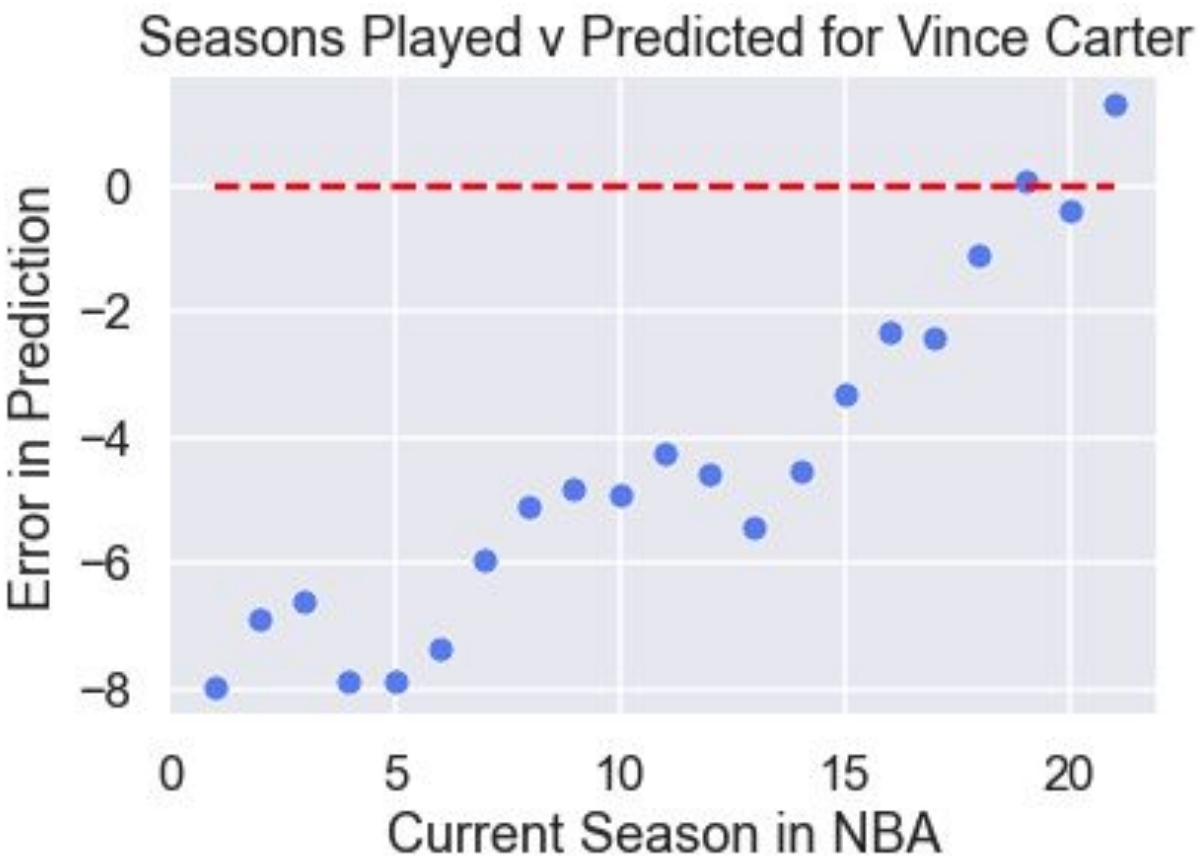



Number of Seasons Left for Players between 1996-2019
Avg Career Length 4.16
Number of Occurences
1400
1200
1000
800
600
400
200
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Number of Seasons


Actual v Predicted Seasons Left
Prediction Error
Actual Seasons Left
8
6
4
2
0
−2
−4
−6
−8
0
5
10
15
20


Seasons Played v Predicted for Landry Fields
Error in Prediction
1.00
0.75
0.50
0.25
0.00
1
2
3
4
5
Current Season in NBA

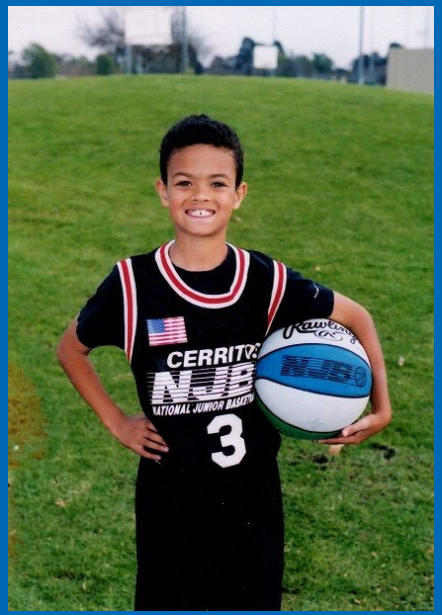
RAPTORS
2
SPALDING

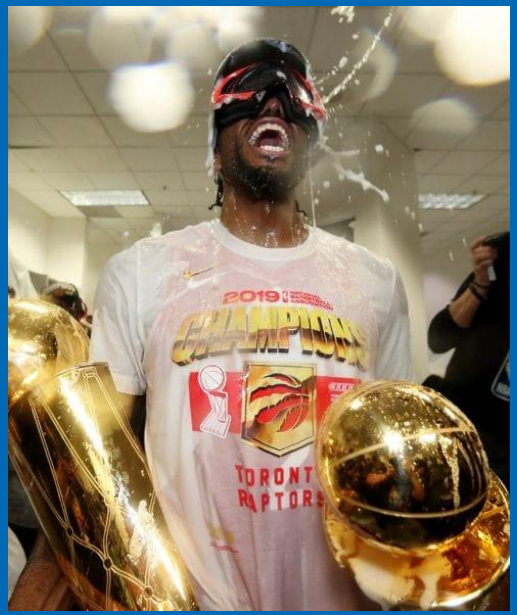

Seasons Played v Predicted for Vince Carter
Error in Prediction
0
−2
−4
−6
−8
0
5
10
15
20
Current Season in NBA

PEACHTREE
15

Recommendations

Get a Contract | **Negotiate** | **Don't Bother**

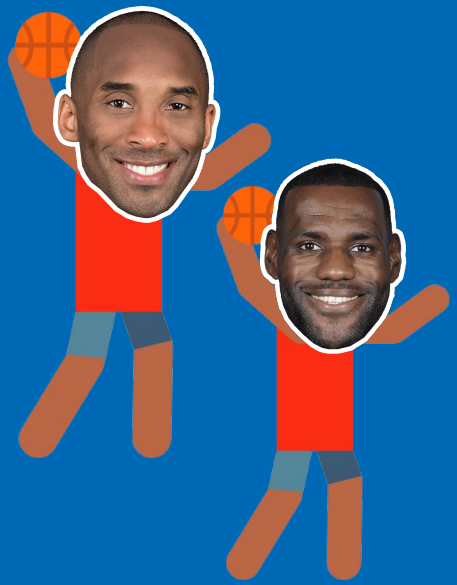




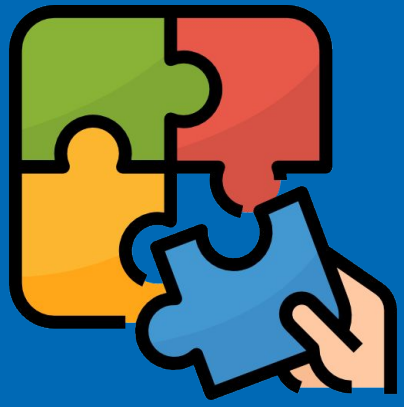
Limitations

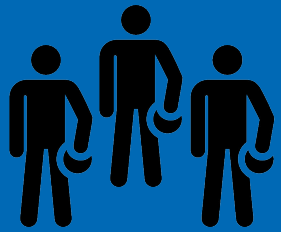
Injuries

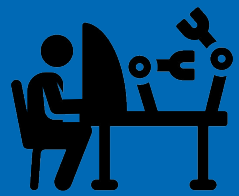
Salary Caps



Negotiations







Post

MVP

Improvements

Contact Info

Nick Pardue
nickpardue@gmail.com

GitHub
npardue

LinkedIn
npardue