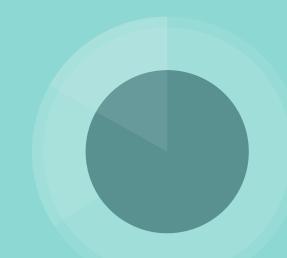
Predicting NBA Salary Based on NBA Stats



By Daniel Lin

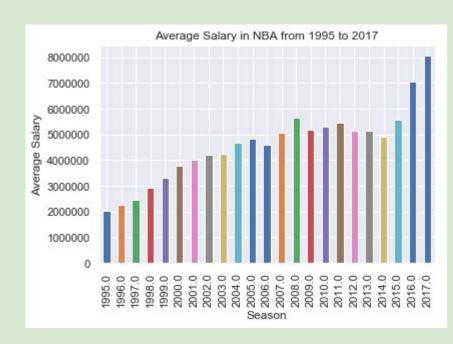
04/17/2020

How much do NBA players make?

- Average NBA player salary: 7.7mil
- Increases as NBA becomes more popular

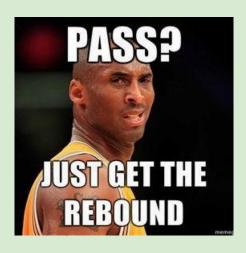
- Each team has the same salary cap
- Use percentage of salary cap to conduct analysis





Can we use the performance of players to predict their salary?

- Should Kobe have passed the ball more?
- Should Shaq have improved his FTs?





Performance vs Salary 2008-2019

- Top categories that highly correlate with Percentage Cap:
 - o PTS: FG, FGA, 2P, 2PA, FT, FTA, MP
 - o DRB
 - o AST
 - o STL
 - AGE



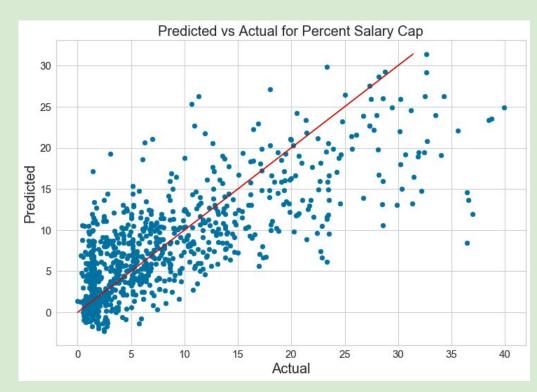
	Pct_Cap
Pct_Cap	1.000000
Age	0.277600
MP	0.592917
FG	0.636111
FGA	0.614017
2P	0.620866
2PA	0.617300
FT	0.588078
FTA	0.593188
DRB	0.562755
AST	0.413779
STL	0.400979
PTS	0.632613

The Model:

• R² value: 0.539

• MAE: 4.103

- Larger variance when predicting higher salary
 - Super-star effect



Future Work

- Use advanced stats to predict percent salary cap:
 - o OFF rating, DEF rating, Usage...etc
- Does popularity influence salary
- More data

