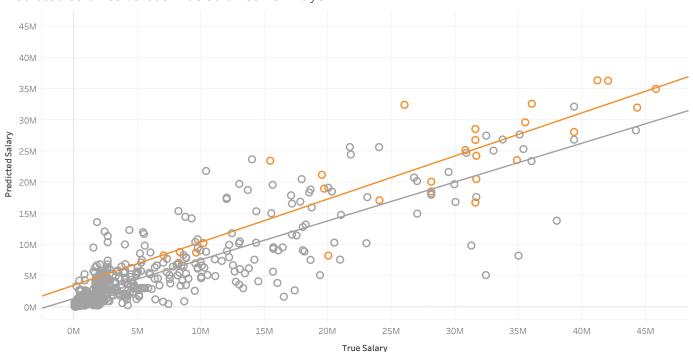
Player Salary
 Players with Highest
 Salary Predictions by
 Salary Predictions by

 Predictions
 Prediction Errors
 Team Success
 Market Size

Predicted Salaries versus True Salaries Per Player



By contrasting 2022 All-Stars versus the rest of the league, it is apparent that the model is able to predict these players will make more money while still accounting for age. This results in players such as Luka Donic and Ja Morant having relatively low predicted salaries even with their high, MVP-level production. The reason for this is NBA players must first complete their rookie contract (a preset amount based on their draft position) before they can negotiate a new, higher paying deal. Our model accounts for this fact with predictions of their salary in the sams range as their true number, while older players such as Kevin Durant and LeBron James, unconstrianed by this rule, have true and predicted salaries near 40 million dollars.

Player Salary
Predictions
Prediction Errors
Players with Highest
Prediction Errors
Salary Predictions by
Team Success
Market Size

15 Most Overpaid Players

| -27,265,341 |
|-------------|
| -26,712,391 |
| -24,113,412 |
| -21,369,269 |
| -15,839,620 |
| -14,817,994 |
| -14,785,123 |
| -14,654,582 |
| -14,213,985 |
| -13,976,942 |
| -13,305,567 |
| -13,135,256 |
| -12,735,180 |
| -12,568,324 |
| -12,465,378 |
| |

15 Most Underpaid Players

| Full Name | |
|-------------------------|------------|
| Jalen Brunson | 11,865,711 |
| Reggie Jackson | 11,486,679 |
| Andre Drummond | 9,747,464 |
| Jonas Valanciunas | 9,737,059 |
| LaMarcus Aldridge | 8,792,086 |
| Dejounte Murray | 8,078,140 |
| Jae'Sean Tate | 8,063,539 |
| Bobby Portis | 8,041,459 |
| Carmelo Anthony | 7,797,600 |
| Seth Curry | 7,227,601 |
| Kyle Kuzma | 6,787,448 |
| Miles Bridges | 6,624,782 |
| DeMar DeRozan | 6,472,402 |
| Shai Gilgeous-Alexander | 6,262,221 |
| Dorian Finney-Smith | 6,075,792 |

The model's largest prediction errors make sense when looking at the player's salary with context. For instance, in the case of Blake Griffin and Kemba Walker, their 2022 salary is so high because two teams are paying them, meaning that they were so overpaid relative to their production that their original teams (Detroit Pistions and Oklahoma Clty Thunder) agreed to buy them out. Meaning these teams would literally pay these players not to be on the team anymore. Other overpaid players (Markelle Fultz and Klay Thompson) have just recently returned from season ending injuries.

In regards to underpaid players, Jalen Brunson and Ja'Sean Tate are both 2nd round and undrafted players, therefore making a set, realtively extremly low salary. This shows an additional future variable to use in this model could be draft position.

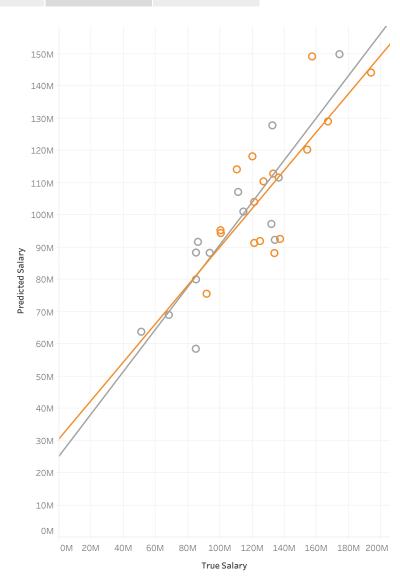
Player Salary
Predictions
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Players with Highest
Predictions by
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Market Size

Prediction Error by Team Success

Team (group) 1

Non-Playoff Teams Playoff Teams -160,988,361

After dividing the NBA by playoff teams and non-playoff teams we see a stark difference in R-squared. Our model is able to explain much of the variance for non-playoff teams as they are in most cases far less aggressive in signing players, and thus, pay them much more in line with their pay. While playoff teams, in pursuit of an NBA championship, offer higher salaries to entice players to join their teams.



Player Salary
Predictions
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Team Success
Salary Predictions by
Team Success
Market Size

Prediction Error by Market Size

Team (group) 2

Large Market Teams
Medium Market Teams
Small Market Teams

-310,761,581 -147,391,457 -63,103,191

By splitting the NBA teams by their respective market sizes, it becomes apparent that their is a stark contrast in how they operate. The prediction error of our model increases as the market size increases, indicating that the teams from larger markets tend to overpay for players as they can afford to.

The teams from small markets have an R-squared value of 0.87, showing that our model can explain an extremely high amount of variance for these teams as thye tend to pay players a more 'fair' rate for their production.

