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Are NBA Players Worth Their Contracts?

My final project of *Are NBA Players Worth Their Contracts* will be done individually. The goal of this project is to determine whether NBA players are performing well based on their contracts. NBA team's main goal is to win a championship, but to accomplish this goal they need to be able to use their money effectively to create the best roster without losing any money. It is common for teams to overpay for underperforming players causing the team to lose out on better players and wins more. This limits teams by reducing depth, reducing financial flexibility for the upcoming seasons, and creating more obstacles to try and improve the team in free agency. By comparing production to salaries, this project aims to identify which players are being overpaid, underpaid, or paid just right and whether teams are using their money effectively to help with team success.

To collect the data, I will be scraping from two websites of Spotrac and DataBallR. Spotrac will provide the contract amount per year for each player in the last couple season and DataBallR will provide the statistics and performance the last couple years to match them with their contracts.

After scraping, collecting, and cleaning the datasets, I will merge the performance metrics and contract information together to analyze salary based on performance metrics. Once combined, I will create metrics like salary per point, salary per win share, expected output vs. actual output, salary per game played, etc. to determine whether these teams are getting the right players for their teams. Once I get the individual output of these contracts, I will then look at how teams are using their salary for these players to determine whether they are getting what they paid for or overpaying for their players. Then I would create visualizations for these insights with scatter plots to see the salary vs win share to see which players are more impactful to wins, bar charts to show which players are being overpaid or underpaid, bar charts to see team contract information, and more to show these insights. From the analysis to the visualization, this will help reveal whether players are worth their contracts and how teams could do a better job adjusting their salary information to help with success for the present and future.