

# Using the accurate data, wages, hitting rate, and stream to determine who is the best basketball player in recent era

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**Abstract.** Basketball, the rising sports, attracts more attentions these days. NBA, the place that include all the top basketball players becomes an influential topic, starting lots of discussions. For example, people talk about the rules, people talk about the refs, and people talk about who is the best player. With the more and more people, nowadays, are talking about who is the greatest basketball player for the all times, LeBron, Michal, and Kobe are all in the list, since they all have different skills and positions, so it is actually hard to compare. For previous researches, people might talk this in their own feeling. For example, they use the words “ dominant on court” and “defense strength” , these blur words to define the status of a player. There is a clear instance, when people compare MJ with LeBron, popele always said , “MJ has a more dominant performance on final, and no one can guard him.” However, with the data is more accurate, we can use data comparsion to define the level of an basketball players. This way is not only more convincing, but it is also more rational. In this text, comparing three great players in our recent era to decide who can earn an higher state in the history. Clearly, we use efficiency to decide who is a better scorer, stream to decide to decide who has bigger influence, and ability to confine their hit rate to decide their defensive ability. Also, this text conclude the previous research on related topic that can influence the performance for the players, like the injury and the mental health. These stuffs is also significant to the players. In the next paragraghs, these points mentioned previously will be clearly dicussed to find answer who is the best player.

**Keywords:** NBA player; Efficiency; Commercial value.

## 1. Introduction

This paper is mainly discussing who is the best basketball player in the recent era, the candidates are mainly LeBron, Kobe, and Mj. This paper uses three aspects in data set, efficiency, influence, and stream to value who has the convicing power to be the best basketball player. The main bodies are under this start.

## 2. Body

### 2.1 Efficiency on the court

The most easy and important way to judge an athlete is to compare the performance on the court and the contribution to the game and team. Thus, the most efficient way to compare these player's performance is using the efficiency of the player on the court.

In this data, including the number of the shot and the real percentage, the 3 point shot and 2 point shot, and the defense in the regular season and off-season, we can know rank of these three player. This is the data analysis.



Fig. 1 this picture assert who has great efficiency in their craeer

We can clearly get information that the mean efficiency of three players in their whole career from this chart. We can see that no matter for the off seasons and for the regular seasons, Kobe always get the lowest efficiency, and also his average point per game is the nearly same as the other two. Also, LeBron and Jordan get the nearly the same efficiency, and we know Jordan gets higher points and LeBron gets more defense contribution, so in this data these two players are in the same level.

## 2.2 The shot percentage

Actually, this data is the further explanation of the efficiency, we can know about who are good at shot or good at 2 point. In this part, I list the 3 points average percentage, the real percentage, and the free through percentage in the court, to further conclude who may be more threatened at the attack. First of all, this

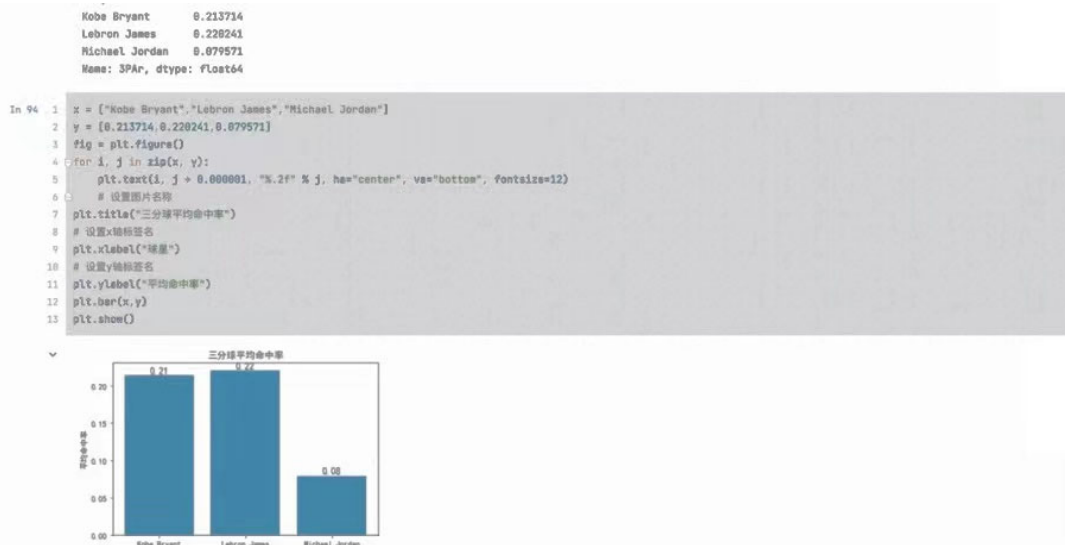


Fig. 2 this picture depict who has a higher hit rate in three

is the three points percentage. Even though in different era three points has different attention for the team and player to consider, it is also a very important thing for player in the important monument, such as the last the last 5 min of the 4th or at the end of every quarter. At the highest pressure, NBA players will also be affected. The studier Bruno Giovanini says, "During high-pressure games, players significantly increased the frequency of right-handed passing. High-pressure games also increased the frequency of left-handed catching. For dribbling and shooting, no differences were observed in

hand frequency between conditions. The success rate of all analyzed skills was similar between the hands in both low- and high-pressure conditions.”

In this picture, we can know that LeBron is the best three pointer among these people, and Kobe has the little bit lower percentage. Jordan, at the 90s which is an era putting attention on confront, is the worst three pointer. However, for the real percentage it is a totally different story.

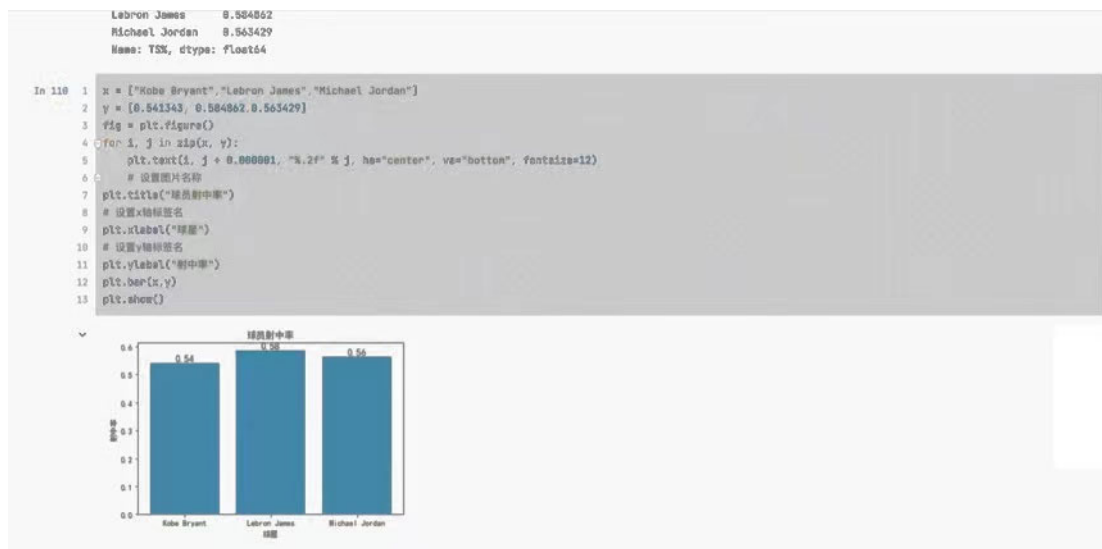


Fig. 3 this picture depicts real hit percentage for the players

From this picture we can realize that three player has the nearly the same for this percentage, but LeBron also get the highest. Next is the free through percentage that the player missed.

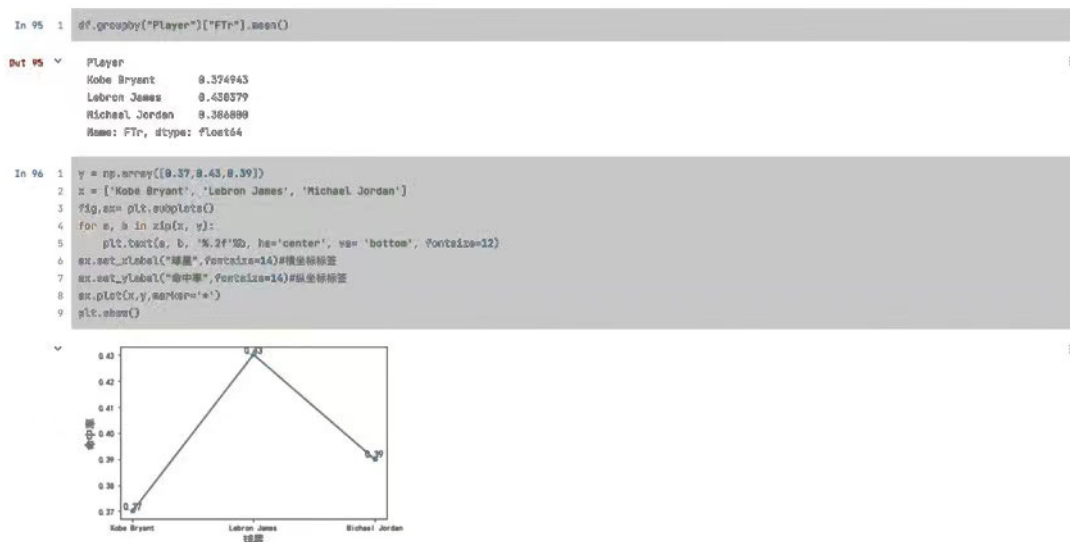


Fig. 4 this picture depicts the curve for percentage that players miss the free throw

We can see that Kobe has the highest free throw percentage and LeBron is the lowest.

To sum up all the point in this part we can also see LeBron has the highest rank in comprehensive comparison. The injury might also be ability to judge whether it is great or not, since it will largely wenken players’ abilities. Professor Hassan Choudhry says, “The incidence of stress fractures in elite athletes may be as high as 15%. These injuries often go undiagnosed until being exacerbated by trauma. Acute injuries to the feet often occur while landing after a jump. In the NBA, injury to the lower extremity accounts for 62.4% of all injuries and 57.8% of all game-related injuries.3 Lower

limb injuries account for 72.3% of the games missed over the last 17 seasons because of injury. Players frequently sustain injuries by landing off-balanced or by landing on the feet of other players.”

### 2.3 Business value

For this last part of the analysis, this might be the weakest point to compare the players compare to last two parts. In this case, this part might be the last part to compare the ability of the player when they have the really close point for the last two part. In this data analysis, I list the average wage for every play to compare their business value in the league. However, from 90s to now, there is a great inflation in the whole world, so Jordan’s wages should be timed an inflation rate for nearly207.87percent in China, and the US may be higher.



**Fig. 5** this picture depicts the total wage that players receive in their craeer

In this diagram, Jordan’s wages per year is 6219000.00 dollar per year, which means 12927435.3 dollar per year. Considering the NBA wages inflation rate will be 100 higher than normal one, we can see that the real wages for Michal is near 24000000, which is much higher than other two, and Kobe’s wage is higher than LeBron. We can see that Jordan has the greatest commercial influence in the league, at least for the 30 teams.

### 3. Conclusion

In the first part of the efficiency, due to the different ages Jordan and LeBron can be seen as the same, but there is a big gap between Kobe. For the second part, the real percentage of shot can be seen the same for three players, however, Kobe higher in free throw, and LeBron Higher in three. In the last part we can see Jordan has the great advantage for the commercial value. In conclusion, we can know that Kobe gets really long distance from the LBJ and MJ, because of the efficiency. However, LBJ and MJ are hard to compare, and may be MJ is little bit better than LeBron, and the LeBron’s career are still on going, so it is not the final conclusion. He still gets the chance to be a better player.

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