

Kamryn Parker

How Successful Will Your Player Be?

I am planning to create a model and host it using an API. I have never used an API service like AWS but I think this would be a great chance to try it. My idea is to take data from all first-round picks of a specific sport. I am deciding between basketball or baseball since they have the least amount of positions per player to consider. I want to use the data from historical draft data of players to make a model that will determine if a player is projected to join the hall of fame or become rookie of the year during their career based on their rookie year statistics. I am not sure which would be a better model/idea to follow so I think I am willing to try and find both accolades. I think this would be a great model because it could cut out the noise of whether or not a player has the “hype” or “it factor” but actually determine if they have the stats to be a hall of fame player or rookie of the year (or both?). Some things to consider would be each player’s different position since they could have different abilities, for example, a center in basketball is more likely to have better rebound and short-range shots compared to a point guard or shooting guard who typically takes more shots in a game.

Timeline/Checkpoint:

- Find data set that contains historical player data and their hall of fame/rookie of the year status (~ 1.5 weeks done by Nov. 20th)
- Clean data and then run multiple machine model analysis on it to see which gives the best accuracy (~ 1.5 weeks, done by Nov. 30th)
 - Logistic, decision tree, SVM, random forest algorithm
- Add to API service and have ready to present (~ 2 weeks, done by Dec. 8th or 10th)

I will be happy with the success of my model if it predicts with an accuracy of around 85-87%