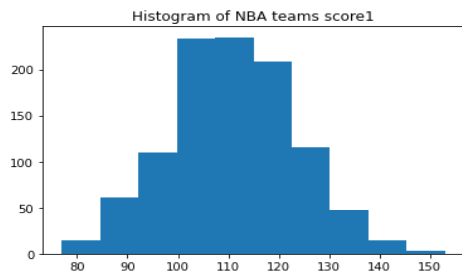


Student Id: 20062188

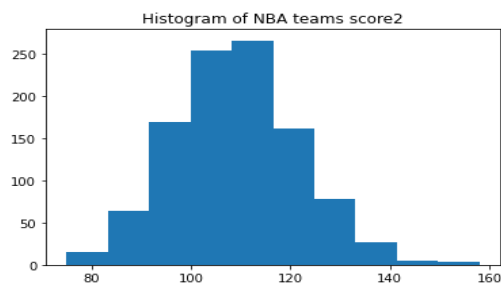
NBA predictions [2021 – 2022]

NBA predictions conducted by project Five Thirty Eight has undergone plenty of variations over a past decade. Initially, it relied on Elo rating to track team trajectories. However, the performance of individual players were estimated by Raptor's rating. The talented team and its player's rating will be updated throughout the year to predict the team performance in the current season 2022. The data was obtained from FiveThirtyEight database (<https://projects.fivethirtyeight.com/2022-nba-predictions/>). Few major findings have been documented below:

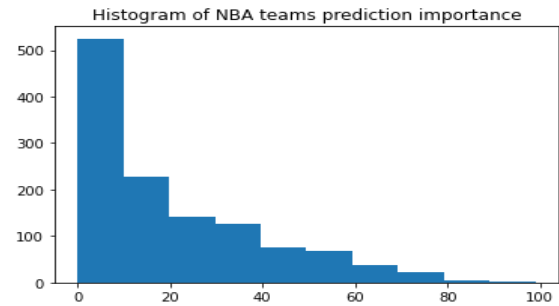
Histogram of team 1 and team 2 scores



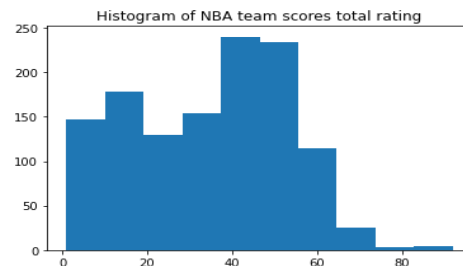
The mean score1 of team is higher is 250. The distribution is normal



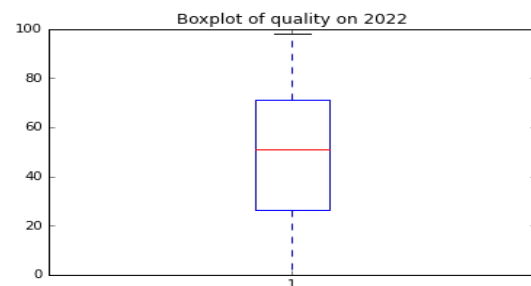
The mean NBA team scores 2 predicted is 270. The distribution is normal.



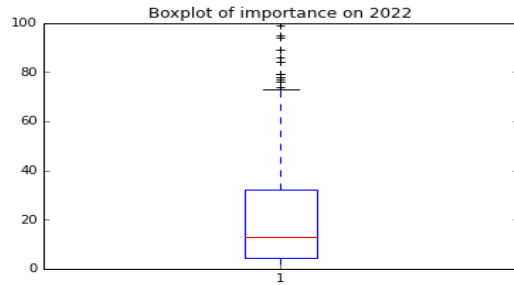
The histogram reveals that the prediction importance of NBA game winning prediction is right distribution. The mean importance score is 10 with the mean of 560



The histogram of total rating of NBA team scores in 2022 indicates that high average scores is 240 is observed with team scores around 50 However, the uniform distribution is observed among team ratings.

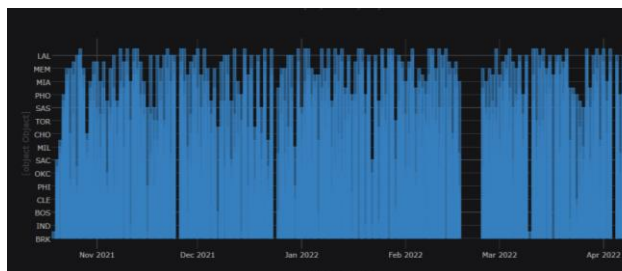
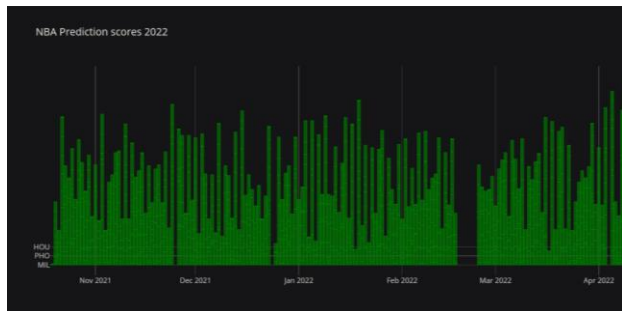


The box plot of NBA rating quality is the average quality rating is 48. The median rating is 51. The highest rating is 98 and lowest total rating is 26 among NBA teams for winning predictions for 2022.



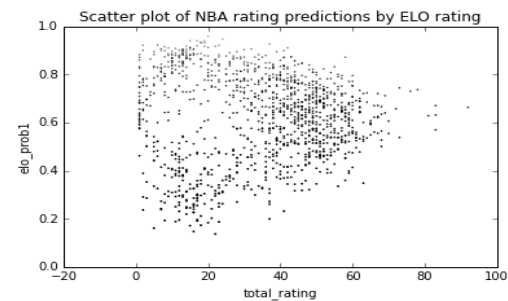
The box plot of NBA rating quality is the average scores of rating importance is 20. The median rating is 13. The highest rating is 99 and lowest total rating is 4 among NBA teams for winning predictions for 2022.

NBA winning predictions by team 1 and team 2 for 2022



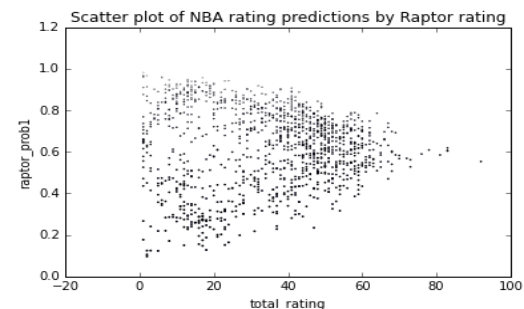
The line chart reveals that winning total rating scores of team 1 was higher during Apr 2022 and less during Nov 2021– Feb 2022. However, team 2 scores show that total rating scores are higher during Nov 2021 – April 2022.

Scatter plot of NBA predictions ELO rating 2022



There is reduced linear relationship between ELO probabilities of winning scores of NBA team

Scatter plot of NBA predictions Raptor rating 2022



There is an increased linear relationship between ELO probabilities of winning scores of NBA team

Reference

<https://projects.fivethirtyeight.com/2022-nba-predictions/>