

Project Process

Data gathering

 Obtain data from source websites and combine (https://www.basketball-reference.com/,

Data cleaning and exploration

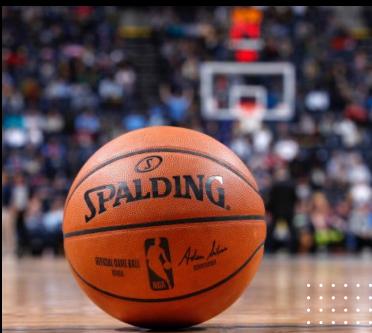
 Clean data and explore columns to better understand dataset

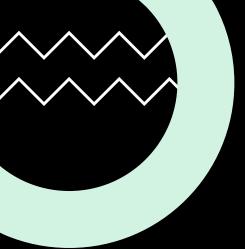
Data Visualization

 Visualize dataset in Tableau to demonstrate the relationship between different stats and wins









Github



Project code



Final dataframe



https://github.com/yichengtun g919/Capstone_Project.git

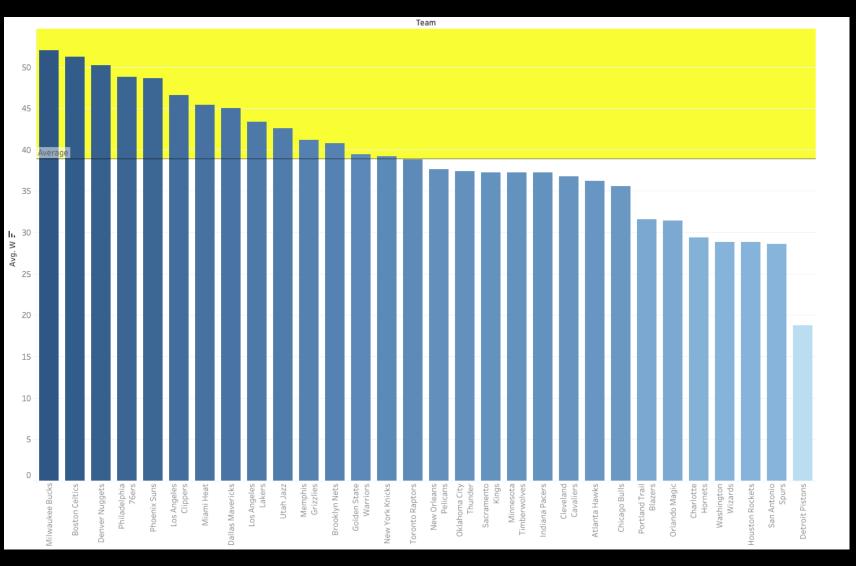






Who wins?

- 2019-2023Season Averages
- 30 teams in total top 16 goes to playoffs
- Average 38.86Wins

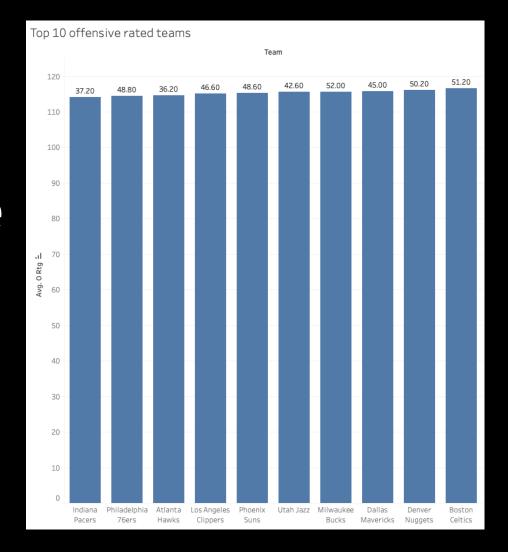


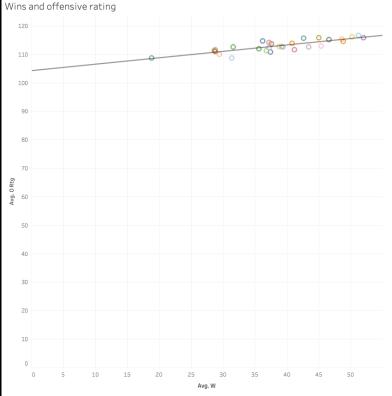




Top 10 offensive

- Celtics at the top for 116 points per 100 possession
- Positive relationship between offensive rating and wins
- R-square 0.68



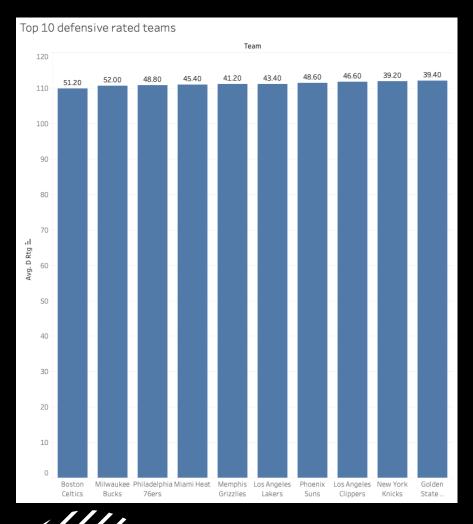


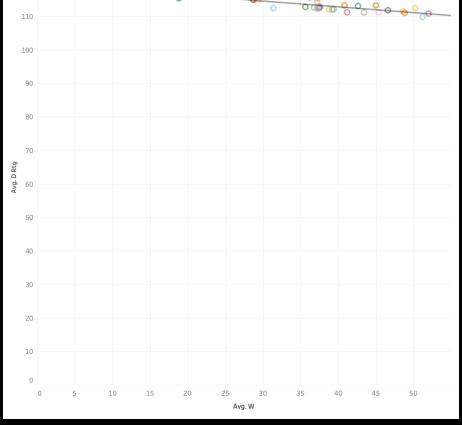




Top 10 defensive

- Celtics at the top for 109 points per 100 possession
- Negative relationship between defensive rating and wins
- R-square 0.58





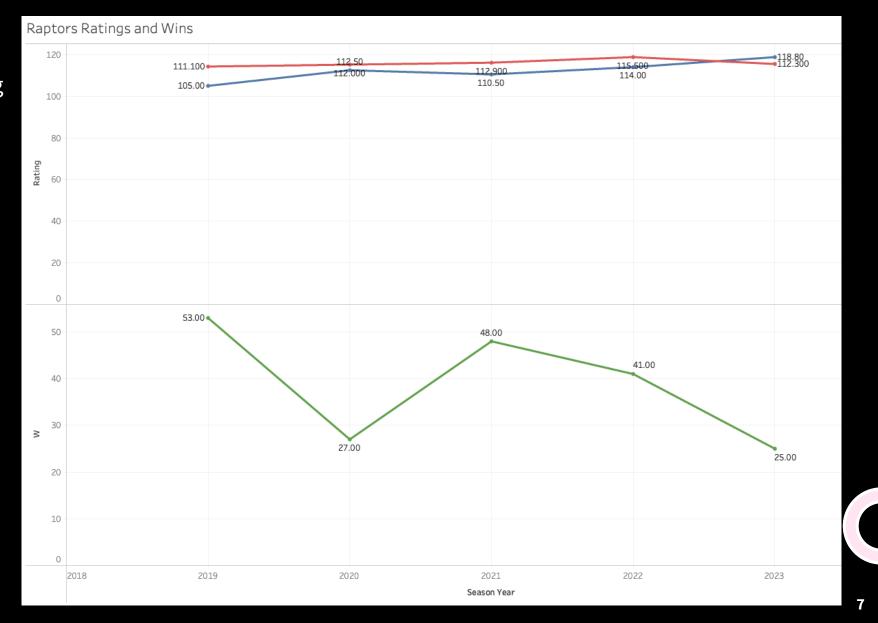
Wins and defensive rating



^ Home town hero

- Red line-Offensive rating
- Blue line- Defensive rating
- Green line- Wins
- Gap between off and def contributes to wins
- 2023 season at negative rating and lowest win record

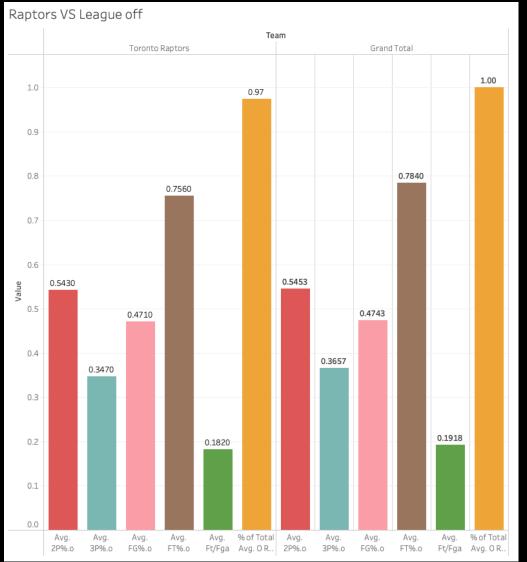


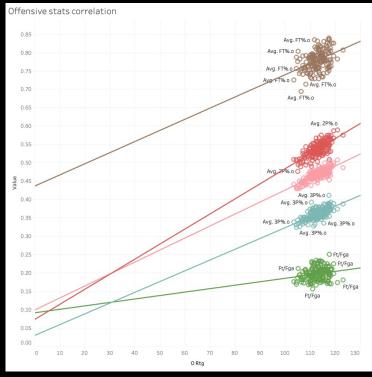




~ Home town hero

- Offensive stats are below average
- Offensive rating below average for 2023





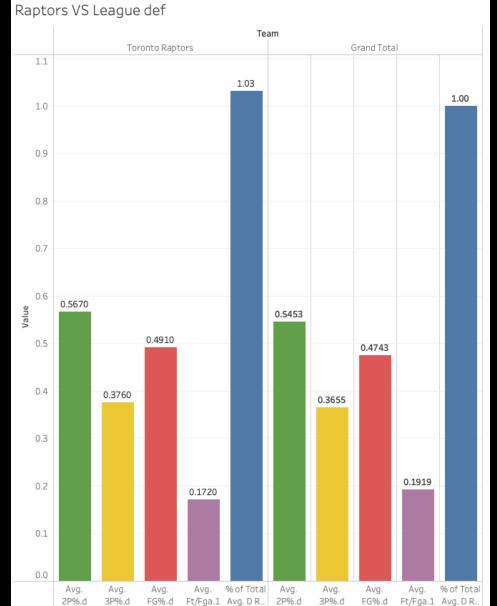


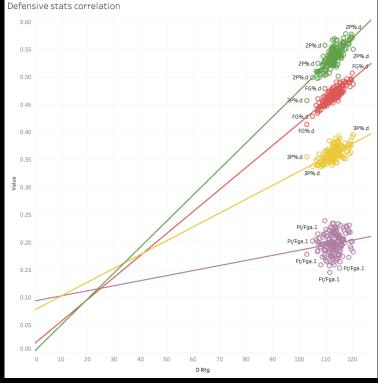




~ Home town hero

- Defensive stats are higher than average
- Defensive rating above average for 2023











Summary

- Winning is not determined by one single stat
- Offense is contributing to winning but defense is also very important to create the net rating gap
- Further analysis can be done on a player level
- Raptors offseason has a lot of work to be done!

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THANK YOU



