NBA Analysis

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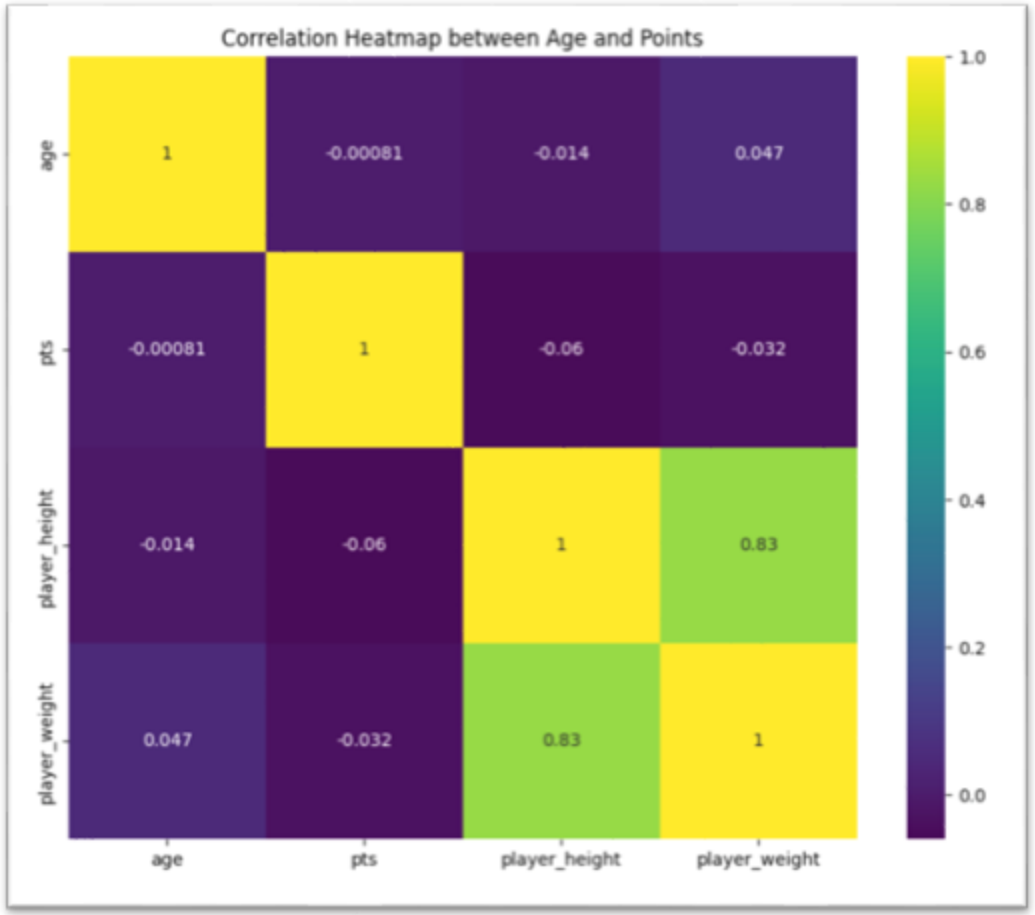
Our Data

- Data set describing NBA players from the 1996-2022 seasons. Includes demographics of each player, performance stats, and biographical data.
- Data Size: 11,145 rows x 22 columns
- Data Type: Includes objects, integers, and floats
- Missing Values: college attended

Beginning Questions

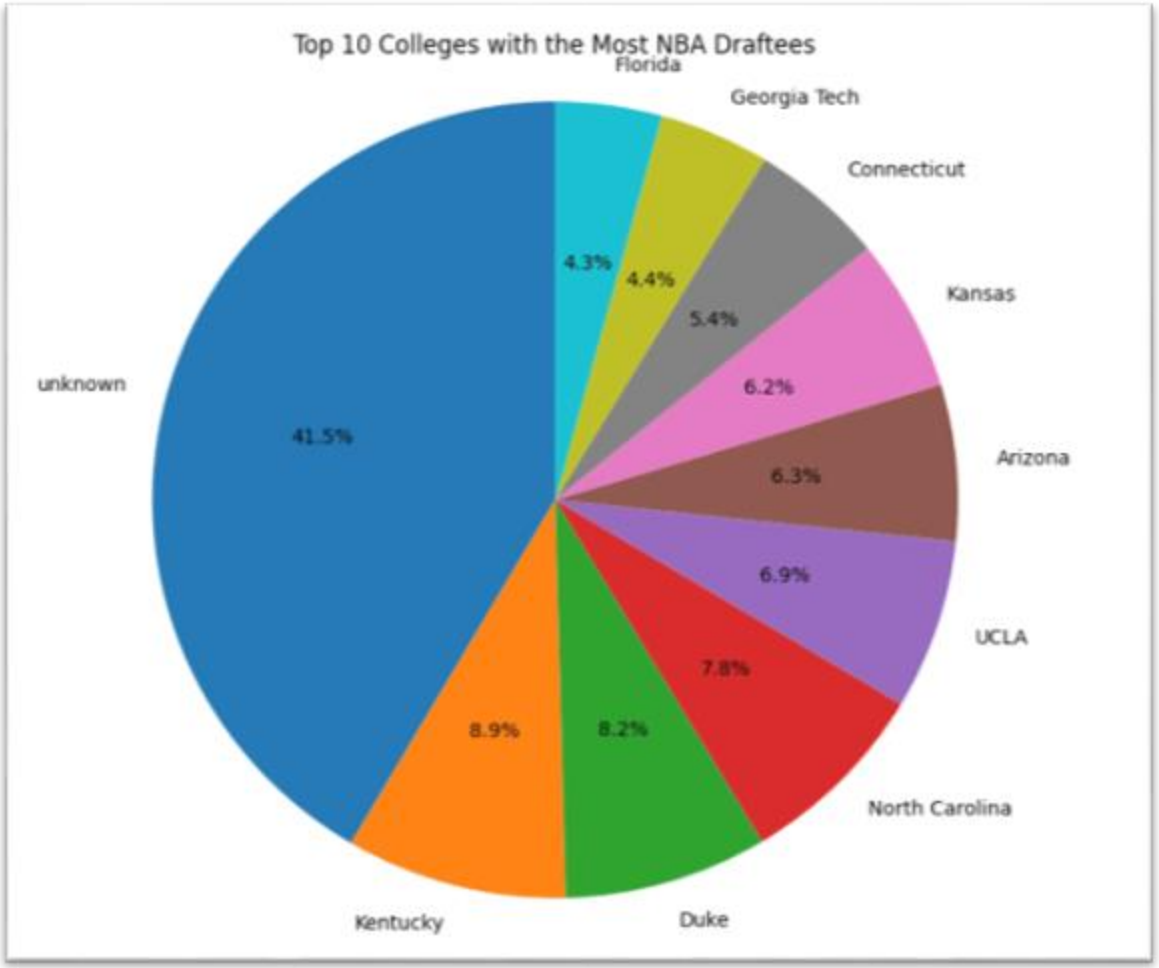
- What correlations does our data have?
- Which colleges have the most draftees?
- Is there a relationship between rebounds and player height?
- How has the NBA changed in terms of points scored?
- Is player size changing as the NBA gets older?

Correlations Within Our Data



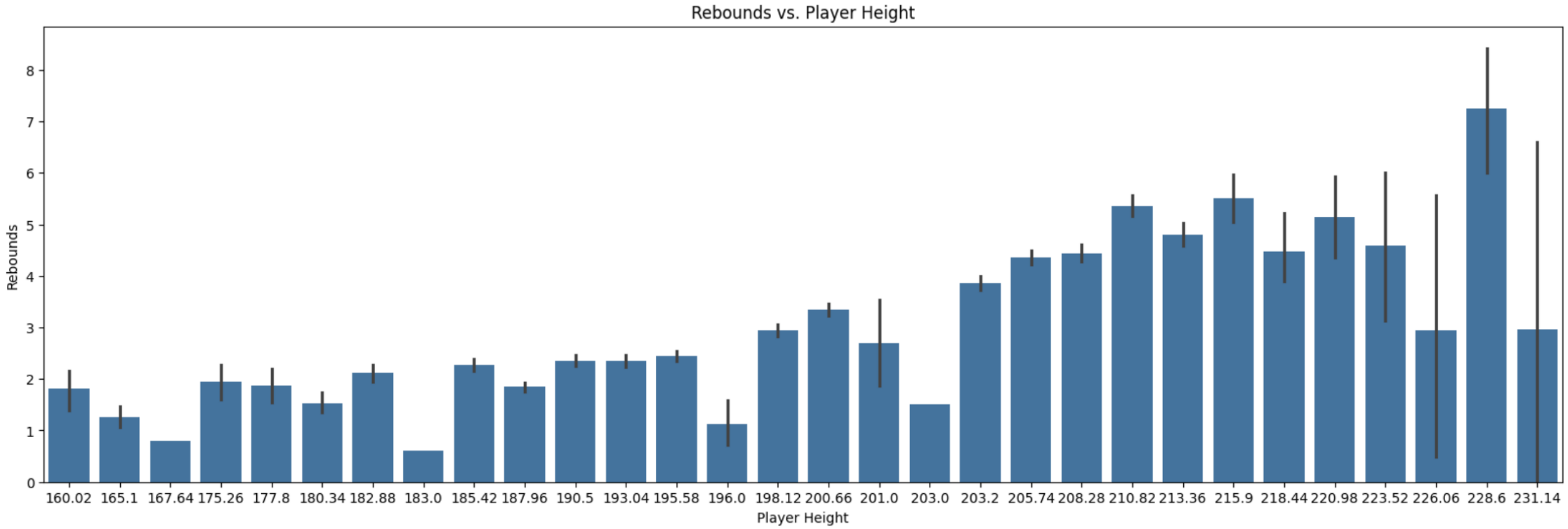
- High correlation between hieght and weight of players.
- Little correlation elsewhere.

Draftees by College



- Unknown is by far the largest category. Why?
- After this we see historically prominent programs.

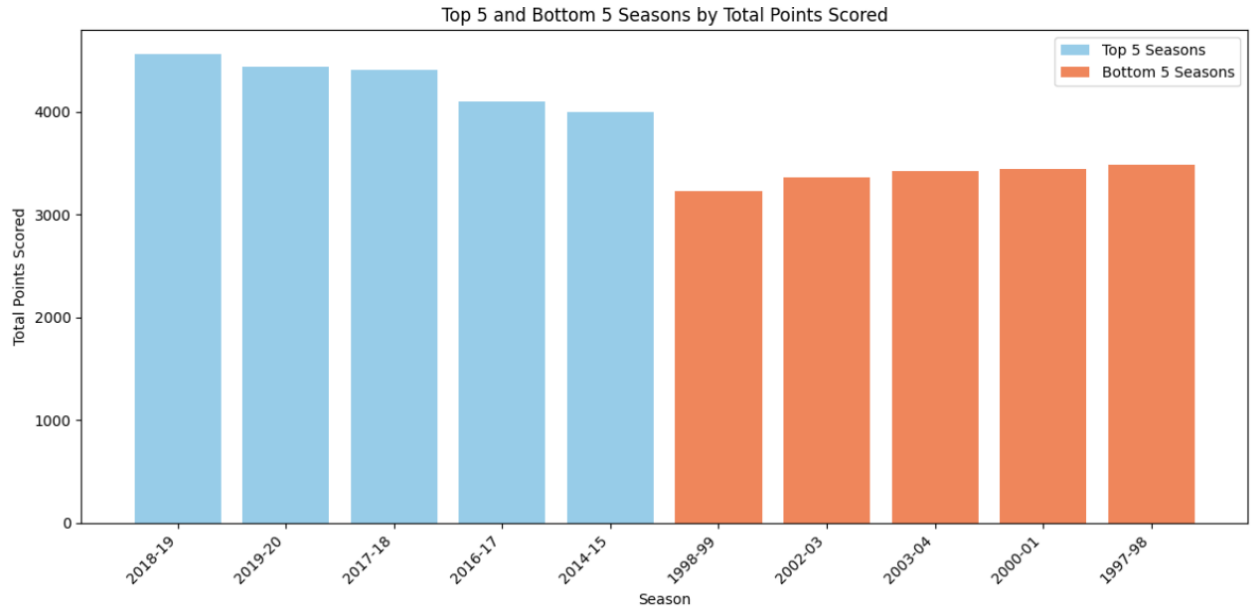
Rebounds vs Player Height

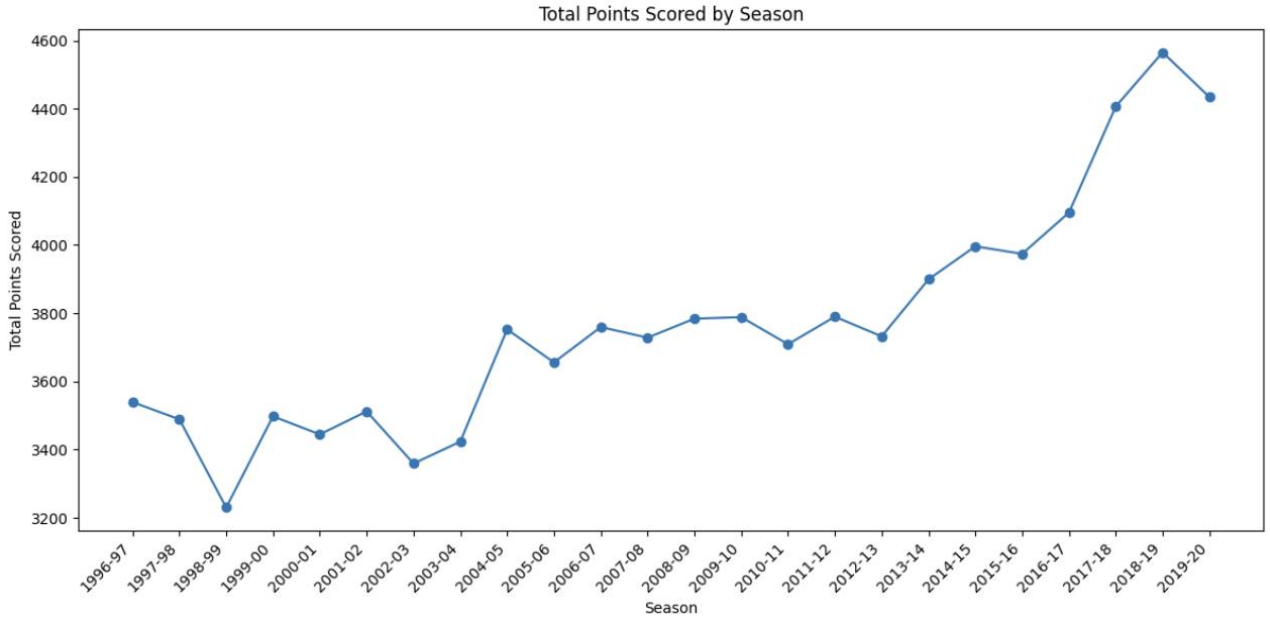


Our data trends towards taller players achieving more rebounds. There are a few heights that do not follow the trend line, but this can be explained through varying athleticism.
Ex: 183 cm and 203 cm

Points by Season

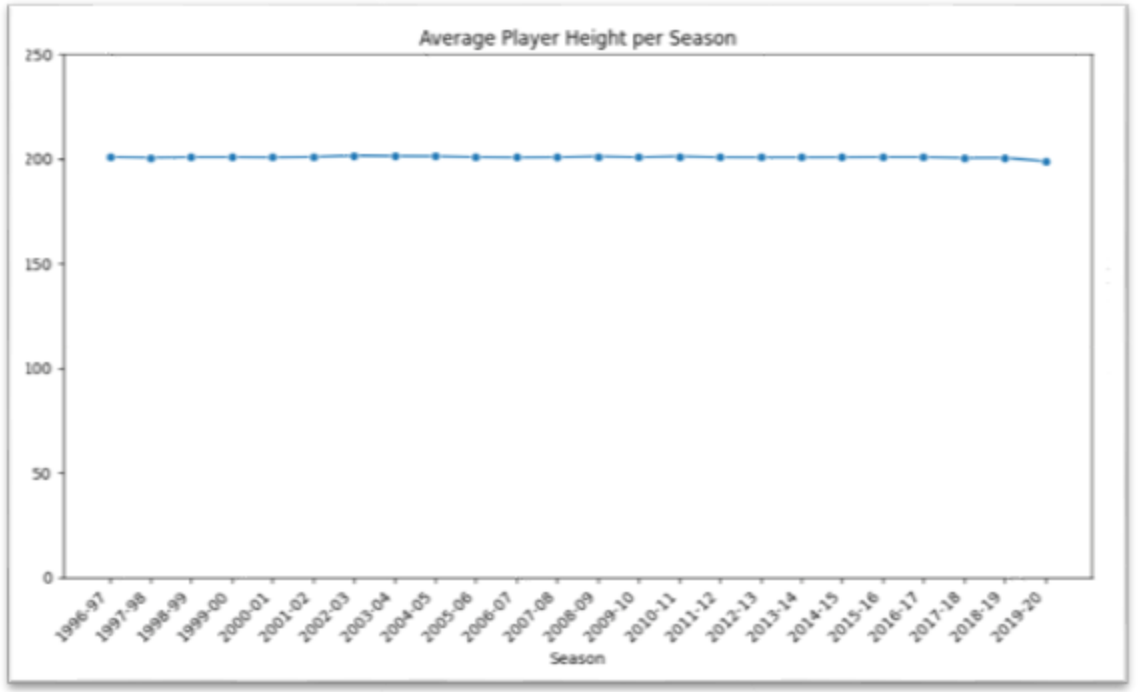
- Top 5 seasons all occur between 2014-2020.
- Bottom 5 seasons occur between 1997-2004
- General trend upwards as time progresses.

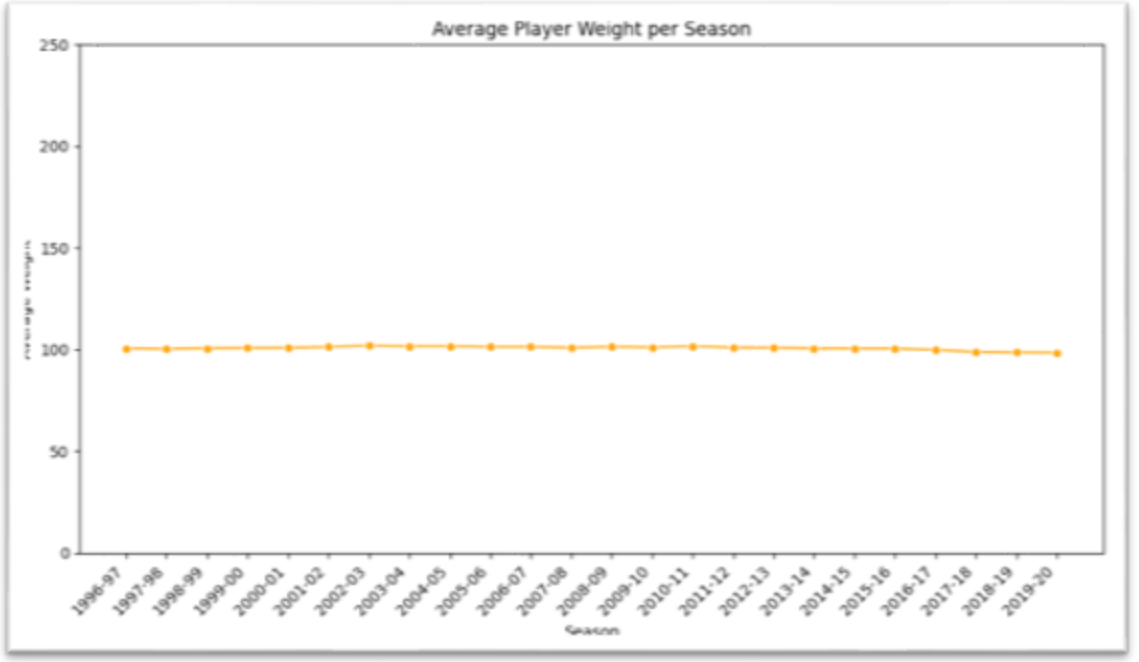




Has Size of Players Changed?

- We were not able to find any evidence that the height or weight of NBA players has changed over time.
- Height stays around 200 cm and weight around 100 kg.





Conclusions

Instead of being a complete set of every player, our data is a random sampling of seasons each athlete played.

- Without a complete data set, we were unable to accurately gauge any individual's career. Percentages also became difficult to measure.
- We focused on single season statistics. This included points by season and rebounds by height.
- We stuck to looking at metrics that wouldn't change over time. This included our height and weight analysis.