Report

05 Nov 2018

Initial version:
https://public.tableau.com/profile/ramya7620#!/vizhome/baseballplayergameanalysis/Story_V1?publish=yes

Final version:

https://public.tableau.com/profile/ramya7620#!/vizhome/baseballplayergameanalysis_final/Storyfinal?publish=yes

Summary:

We are exploring the dataset which contains details of 1157 baseball players having physical attributes measured in handedness (right or left) ,weight(pounds) and also height(inches).Performance is measured interms of homerun and also batting average.

Our aim is to find how each of physical attributes affect the performance of player.

First we saw classification of players with respect to weight ,height and handedness .Then we plotted relation between height vs home run and then height vs batting average .Similar kind of analysis is done for both weight and handed ness and with the help of visualization we brought under below conclusions .

Conclusion:

1.Player with lower weight have better batting average while players with higher weight and medium weight scores more home runs .
2.Player with lower height performs better than player with higher height in terms of batting average and medium height players performs better in terms of home runs .
3.Lefthanded players perform better than right handed in terms of batting average and home runs .

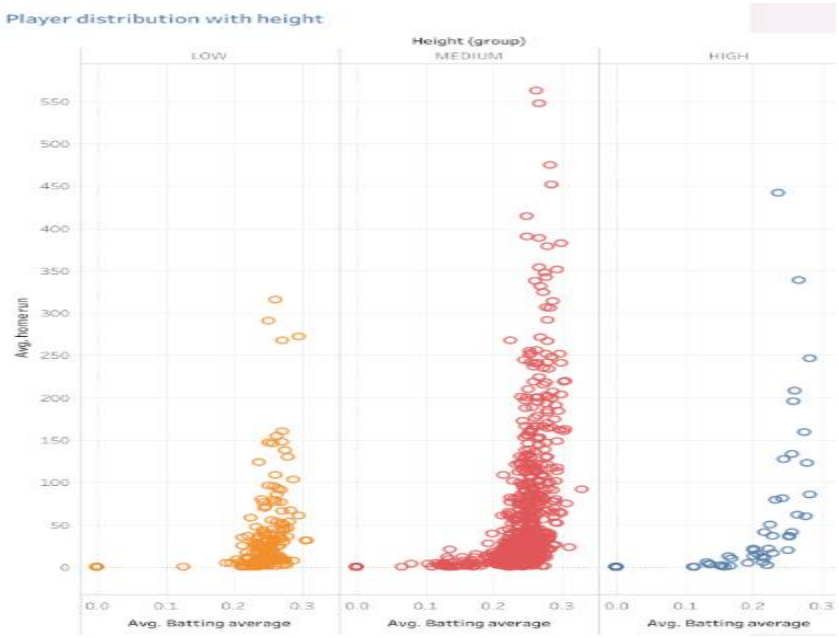
Design:

I have used packed bubbles to show handedness left handed ,right handed and both handedness so that we can properly understand the quantity of each group of players .I prefer packed bubbles over pie chart .I used histogram while plotting weight and height to find median value of height and weight and then divide them in to group as low ,high and medium.

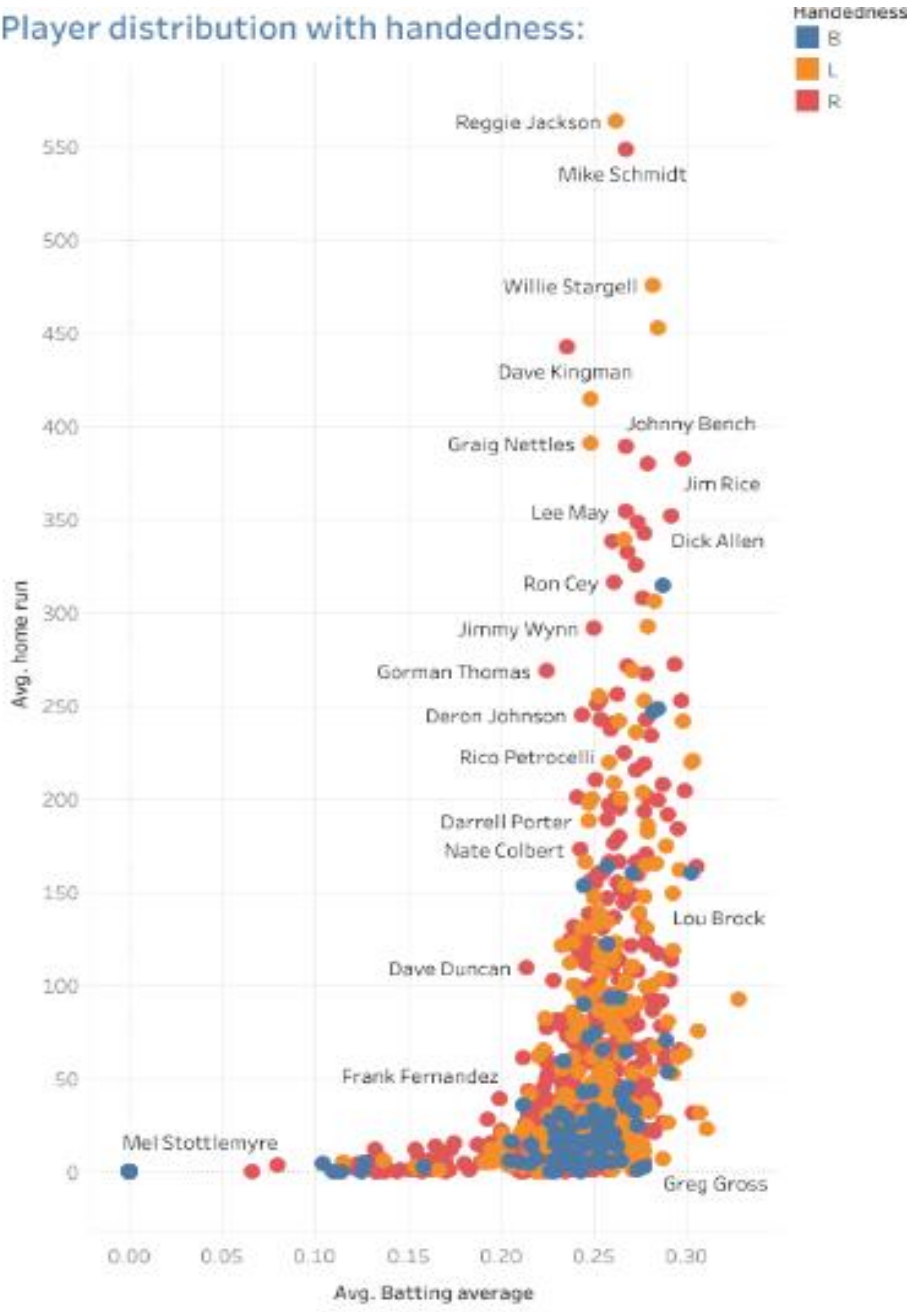
In my intial version ,I used only histogram to find relation of players with respect to each performance parameter batting average and home run .With feedback,I used circle view so that,with respect to each physical attribute eg height ,both performance parameters like batting average and home run can be plotted simultaneously to have better visualization.

When it comes to differentiation of players with weight I used size to differentiate them.when it comes to differentiation of players with height,I used same color for different group.and plotted separately.when it comes to differentiation of players with respect to handedness I used same color for different group but plotted together.

Important findings visualization plot:



Player distribution with handedness:



Feedback:

Feed back no 1.height vs batting average separately and height vs home run .it should be analysed together for better conclusion

Actions taken for feedbackno1 :In final version ,I used circle view and side by side circle view so that both home run and batting average can be plotted in two dimension along with weight or height .

Feedback 2.Only low or high weight or height people is discussed in conclusion.Average height or weight people are discarded

Actions taken for feedbackno 2 :

In my intial version ,only low and high weight or height people are discussed .After that valid feedback,I divided players in to three groups like low ,high and medium and conclusions are provided .

Resources :

Udacity Course materials.

https://en.wikipedia.org/wiki/Baseball

https://www.azsnakepit.com/2010/7/5/1550963/baseball-players-does-size-matter