Study on the Performance of Baseball Players

Summary

We studied the data on 1,157 baseball players including their handedness (Left, Right or Both), height (in inches), weight (in pounds), batting average and number of home runs - to understand what affects the performance of different players. On studying the data we found that on average both-handed player with 76 inches in height , had a higher chance to hit a home run and have higher batting averages.

Projects on Tableau

First Submission :
https://public.tableau.com/profile/elizabeth2795#!/vizhome/Udacity-PerformanceofBaseballPlayers/Story1?publish=yes

Final Submission :
https://public.tableau.com/profile/elizabeth2795#!/vizhome/UdacityProject-PerformanceofBaseballPlayers/Story1?publish=yes

Design

We wanted to understand what relationship a player's batting averages had with them hitting a home run - so we created a scatter plot of the two variable (and saw their was a weak positive relationship between them).

Seeing this we studied the player's height distribution - with their handedness in account to using a histogram. It showed that a majority of the players use both hands and are 73 to 75 inches tall.
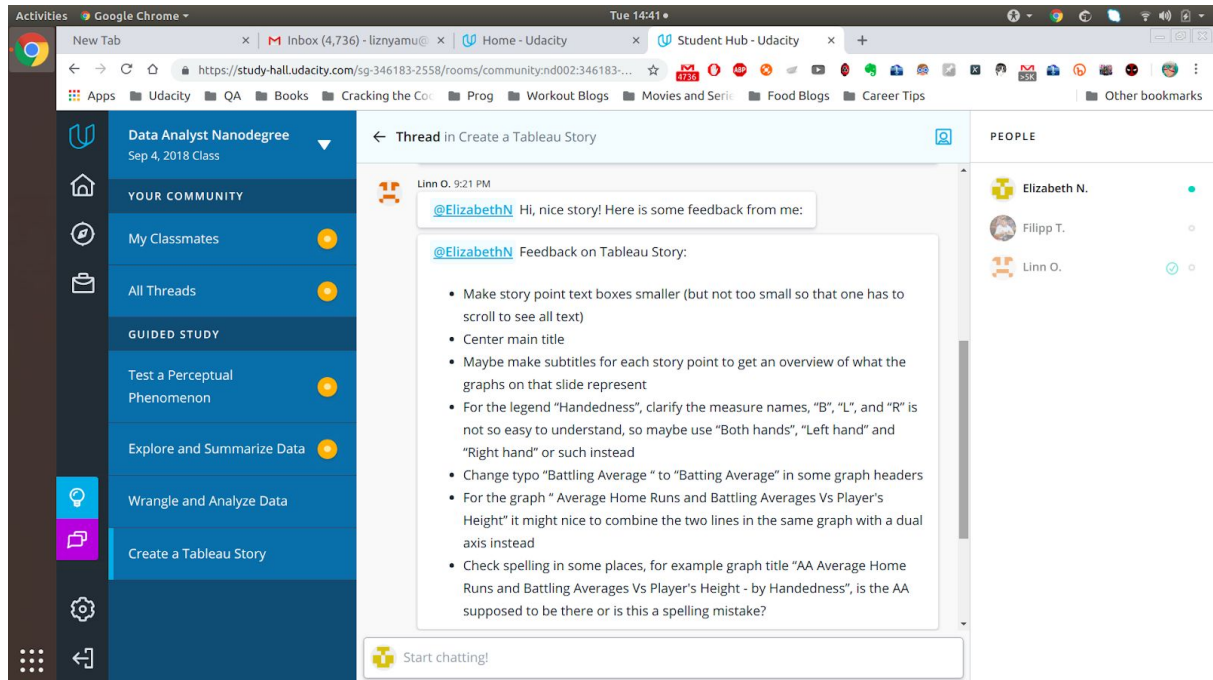
Taking Height into consideration - we plotted Average Number of Homes and Batting Averages using a line chart - on the same axis. The plot showed that on average shorter players had a higher chance of hitting a home run than their taller colleagues.

We then added handedness to see if affected the player's performance to the previous plot. This plot showed that on average both-handed player with 76 inches in height, had a higher chance to hit a home run and have higher batting averages.

On receiving feedback I : made the story point text boxes smaller on tableau story, centered main title, changed the handedness legend labels from 'B', 'L' and 'R' to 'Both', 'Left', 'Right', corrected typo issues and used a dual axis on the plot for "Average Home Runs and Batting Averages Vs Player's Height".

Feedback

I shared the project results with fellow students on Udacity's DAND (Student Hub) and got the following feedback:

Resources

How to change Legend Alias :
https://community.tableau.com/thread/146112