**Baseball Data Analysis**

DAND term 2 project 4: Data Story Telling.

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**Introduction:**

This project aims to analyse a dataset using tableau and create an explanatory data analysis report on the chosen dataset. I have chosen the Baseball dataset which consists of 1,157 baseball players including their handedness (right or left handed), height (in inches), weight (in pounds), batting average, and home runs.

Initial visualization:

<https://eu-west-1a.online.tableau.com/#/site/sahilyadav/workbooks/83213/views>

Final Analysis:

<https://eu-west-1a.online.tableau.com/#/site/sahilyadav/workbooks/83216/views>

**Summary:**

To summarize my work, I have created various relationships between batting average and home runs and other variables too, to determine the ideal batsman with consistent performances for the team, like ideal weight and height of the batsman etc.

**Design:**

**Initial phase:**

Starting off, I made a bar graph to see which handedness was most popular amongst players. It shows more than half of the players were right handed.

Then I created a scatterplot to find a relation between batting avg. and home runs. They have a very light positive correlation, nothing solid can be determined.

Next I plotted a line chart for Weight of the player vs. batting avg. and home runs respectively. Turns out, 170-200 pounds is the ideal weight for a batsman to show a good consistent performance for the team.

I plotted the same graph but this time instead I replaced weight with height. A height between 70-78 inches is ideal for a good scoring batsman.

I plotted these graphs for the max value of batting avg. and home runs.

**Final phase (After Feedback):**

I improved 2 of my previous charts to find out the following things:

* The ideal weight of the batsman for having an acceptable batting average remains the same. But a batsman who can bat on both sides is of more value to the team than others.
* The ideal height also remains the same, but the same thing is noticed here as well that a both handed batsman is better than the latter.

**Feedback:**

**1) “Good to see your visualization. But according to me, instead of using maximum values in the line chart you can use averages and check if the results are the same. Also, you can apply a filter of handedness to see which handed batsman makes a better player.”**

**Solution:** Instead of using the maximum values as a measure, I applied the average measure to my home runs and batting avg. and home runs. I noticed pretty much the same results.

I also added the filter to see the changes, and I noticed that the batsman who could bat using both hands was indeed a better player in terms of scoring and helping the team win.

**2) Your visualization is just fine. The final dashboard looks a little crunched up because of the headings, I suggest you to remove them to give your story a better look.**

**Solution:** Removed Headings from Final Story.

**Conclusion:**

I conclude by saying that an ideal batsman who gives the team an advantage over the other should a batsman weighing anywhere between 170-200 pounds with a height between 70-78 inches and who has the ability to bat using both hands.