

During the assignment I learned that working with CSV files and converting them to pandas Dataframes is not always that simple. The column headers were off, so I had to look at the first row, which had the actual column header names, and base the data off of that. Through that I learned how to filter out specific rows using `.iloc[1:]`. I also learned how practical and logical it is to first filter a certain column by `ascending=False`, in order to find the values of another column (i.e. names) where the other column (i.e. points) are the greatest. I also gained more experience with plotting data into bar charts and scatter plots, which really helps in visualizing the data that I am working with.

Probably the biggest challenge I faced with this assignment was like I mentioned earlier, how the column headers were off. It got a little tricky when I had to filter out the row that had the actual column header names, and then put that into a second data frame with filtered values. I learned that the trick with that is to break up the procedures into different parts. On top of filtering the values and a specific row, I also had to convert the string into an int, in order to find the sum of the values of that column. The trickiness was in figuring out what the order of doing each was.

Analyzing these statistics can be useful for many other fields, especially with statistical testing and developing predictive models. One example I always think of is the healthcare field, where it's important to consider personalized medicine based on individuals. I also think of the stock market and ongoing financial trends. Finding correlations between different variables in healthcare and finance can provide new insights that may have not been found before. I feel more interested in learning about how analyzing a set of data can lead to new information.