

In this assignment, I learned how versatile Pandas and Python notebook can be. Data analysis, from cleaning to presenting, is extremely simplified with this process. To credit my sources, I used Collab's generative AI feature to quickly identify any documentation or syntax I wasn't familiar with, rapidly expanding my knowledge of the Pandas library. These skills can be applied to future data analysis projects to quickly extrapolate relationships and run queries.

The most challenging aspect of this assignment was to filter the data and identify the top 3 or 5 observations in the DataFrames. I overcame this by consulting documentation sources and learning about neat features that Pandas has to make the process easy. Another challenge I had was cleaning the data and making it compatible with Pandas commands. A lot of the data columns were initially identified as object data types, so I had to manually switch each column of data, as I needed them. This was overcome, however, by simply looking into pandas documentation.

The insights I gained from analyzing ACC basketball statistics can be applied to real-world datasets like gene labels and biostatistics. As a biomedical engineer, the systems biology and molecular data science applications of these simple, but effective, data analysis methods are extremely useful for my area of study. Moreover, as an aspiring physician, having a comfort with using pandas and performing data analysis will help me greatly as I try to identify patterns in patient populations I will care for in the future.