To Make A Programs That Gathers NBA Data Using Scraping

Language: Visual Code Python on Anaconda

The plan is to make a program that gathers NBA data of players and their stats that also shows what team they're on. To do that I will need to go to "basketballreference.com" then use the inspect tool to find the api code and start scraping the data off the website. The pip or libraries I will be using to help get the scrapes and put it on a website for people to use to get the data are:

- Streamlit (build the website)
- Pandas (handle the data and web scrape)
- Base64 (data download)
- Matplotlib (data)
- Seaborn (data)
- Numpy (data)

I would download all these pips using the Conda terminal after downloading pip first. Using the terminal the following would be typed: Pip install, pip install Pandas, pip install Base64, etc. After installing them I would type in the terminal "Streamlit hello" which would take me to google and show me a demo of the website I will be working with.

When creating titles I will use St.title('') and insert what the title will be to show the title on the website. Everytime I make changes to the code I will run the program and it will show a link that I will copy and paste in the terminal which will bring me to the website to check the changes made. Using st.markdown("""" """") I will type in the small description of what the web is and the libraries I used. It will also have a citation of what

website I scraped the data from. I will then insert a code that shows a drop down menu of a specific amount of years of specific players played in. This will probably range from 1980 to present time only because Michael Jordan started playing around that time. I will then write the code to gather all the NBA teams to be in a drop down menu and will let the user pick which teams they want. I will do the same with the positions they play. After that I will provide the code needed to show the chart of data on the player they have searched for and their position, age, team, ppg (points per game), etc. I keep reminders to check my web by running the program to make sure everything is running properly. This plan is easier said than done.