Steps to Run the Code

Step 1: Install Jupyter Notebook and Necessary Libraries

a. Install Required Libraries:

- Install the necessary libraries used in data analysis and sports analytics by running the following command: pip install pandas numpy matplotlib seaborn scikit-learn scipy tensorflow keras beautifulsoup4 requests selenium.
- This command installs:
  - ❖ Pandas, NumPy for data manipulation.
  - ❖ Matplotlib, Seaborn for data visualization.
  - ❖ Scikit-Learn, TensorFlow, Keras for machine learning.
  - ❖ BeautifulSoup, Requests for web scraping.
  - ❖ Selenium for browser automation.

b. Run Jupyter Notebook:

- Open Jupyter Notebook by running the command jupyter notebook. This will open Jupyter Notebook in your default web browser.

Step 2: Install ChromeDriver

a. ChromeDriver is required for browser automation tasks, such as web scraping with Selenium.

- Install ChromeDriver:
  - ❖ Visit the ChromeDriver download page and download the version that matches your Chrome browser. After downloading, place it in a directory included in your system's PATH, or specify its path directly in your code.
  - ❖ Alternatively, you can install ChromeDriver using a Python package by running pip install chromedriver-autoinstaller. Then, in your script, use the following code to automatically install the correct version:

```
import chromedriver_autoinstaller
chromedriver_autoinstaller.install()
```

Step 3: Clone the Repository

a. Clone the Repository:

- Open a terminal or command prompt and run the command

```
git clone
https://github.com/GudiDheeraj/Dissertation-sports-analysis
```

b. Navigate to the Cloned Directory:

- Change to the cloned directory by running cd Dissertation-sports-analysis.

Step 4: Run the Python Code

a. Open the Jupyter Notebook:

- In the cloned repository directory, look for complete python code.ipynb file (Jupyter Notebook file). Open it using Jupyter Notebook.

b. Run the Code:

- Execute each cell in the notebook sequentially by pressing Shift + Enter.
- If any libraries are missing, install them by running pip install <library_name> directly in a new notebook cell or in the terminal.

Reference: Using Executed Code

- As you run the notebook, the code will execute, and the output will be displayed below each cell.
- For any doubts in code execution, please refer to the executed code in the repository with the filenames part 1 executed code.ipynb and part 2 executed code.ipynb.

Troubleshooting

- Missing Libraries: If you encounter an error indicating a missing library, install it using pip install <library_name>.
- ChromeDriver Issues: Ensure that the ChromeDriver version matches your Chrome browser. If issues persist, re-download the appropriate version or reinstall using chromedriver-autoinstaller.