**Picking Probable Playing XI**

**Problem statement:**

Pick the best playing XI for each of the 8 IPL teams from their current squad.

**Approach:**

1. Data mining, scraped data from the espn website using BeautifulSoup API.
2. All the scraped data are stored in the dataframe container and saved in csv file.
3. Logic applied to output the best probable playing 11.

**Logic Applied:**

1. Get the input. [IPL team name]
2. Based on the inputted team name, first grab the captain of the ship. **[ list size =1]**

Selected captain as per the franchise’s priority [ data scraped]

1. Next approach is aimed in selecting the Uncapped Indian players.

Randomly selected from the list of uncapped players. **[ list size =2]**

1. Oversea player are selected at random from the list of oversea players available with selected list **[list size = 6]**

**Note : Batsman, Wicketkeeper, Bowler, Allrounder counts are counted based on their skill for all the 6 players who are included in the playing 11**

1. Remaining 5 slot are filled with Indian player based on the available slot for Batsmen, Bowler, Wicket Keeper and Allrounder. **[list size =11]**

**> Best batsman’s & wicket keeper are selected based on strike rate and average [ Using weighted average]**

**> Best Bowlers are selected based on bowl\_strike rate and bowl\_average and bowl\_economy [ Using weighted average]**

1. Once the list size is equal to 11, then return the player list along with their corresponding role.

**Difficulties Faced:**

Few hiccups are faced during designing the logic for the probable playing 11.

Data mining had few hard stop,

Case 1) Some uncapped player stats are not recorded.

Case 2) All the span tag arrangement are not in same order across the player list