**IPL Match 2008-2020**

**Introduction**

The **Indian Premier League** (**IPL**) is a professional [Twenty20 cricket](https://en.wikipedia.org/wiki/Twenty20_cricket) league. The league was founded by the [Board of Control for Cricket in India](https://en.wikipedia.org/wiki/Board_of_Control_for_Cricket_in_India) (BCCI) in 2007. The 2020 Indian Premier League, also known as **IPL 13** and branded as [**Dream11**](https://en.wikipedia.org/wiki/Dream11) **Indian Premier League 2020**. There have been [fourteen seasons](https://en.wikipedia.org/wiki/List_of_Indian_Premier_League_seasons_and_results) of the IPL tournament.

Cricket is the biggest tournament played in all most all the countries. It is the game between two teams in which the each team has 11players the final result will be either loss or win.

Sometimes the game is unpredictable because of that game keeps on changing each and every time.

**Agenda**

* IPL 2020 will be the 13th edition of the league.
* Indian Premier League is a Twenty – 20 Cricket league held in India annually.
* It was founded by the BCCI – Board of Control for Cricket in India (BCCI) in 2007 which is responsible for the operation and functioning of the league.
* The tournament is played with 8 teams namely – Rajasthan Royals, Mumbai Indians, Chennai Super Kings, Sunrisers Hyderabad, Royal Challengers Bangalore, Kings XI Punjab, Kolkata Knight Riders, Delhi Capitals.
* The top four teams receive cash prizes at the end of the tournament

**Problem of Statement**

* The first step is to collect dataset of past matches which is enough to perform the   
  operations.
* The data to be displayed like how many matches team opted batting first after winning toss and won the match and how many choose fielding and won the match.
* The raw data is converted into useful information by performing certain operations. This is done to provide information in appropriate manner.
* Calculations on individual players like batsman, bowler, all-rounder and fielder on different dataset.

**Purpose of the Project**

To create a dashboard that visualizes the following capabilities and also forecast the future results

1. To find the team that won the most number of matches in the entire IPL.
2. Does winning a toss increase the chances of victory of match.
3. To find the player with the most player of the match.
4. To find the city that hosted the maximum number of IPL matches.
5. To find the most winning team for each season.
6. To find the on-field umpire with the maximum number of IPL matches.
7. To find the biggest victories in IPL while defending a total and while chasing a total.
8. Which team won the most matches while batting first
9. Which team won the most matches while batting second
10. List of teams which have won matches by most runs cumulatively

**Data Analysis**

1. [How many runs were scored in each season?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#2)

**Ans :** Total of 252794 runs scored in each season.

1. [What were the runs scored per match in different seasons?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#3)

**Ans :** Mumbai Indians with 32286 runs.

1. [Who has umpired the most?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#4)

**Ans :** HDPK Dharmasena is umpired the most with 78 times on 23 Batsman.

1. [Which team has won the most tosses?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#5)

**Ans :** In team1 Royal Challangers Bangalore won the tosses around 108 times.

1. [What does the team decide after winning the toss?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#6)

**Ans :** 320 team decided to bat and 496 team decided to field after winning the toss.

1. [How toss decision varies across seasons?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#7)

**Ans :** Chennai Super Kings decided 56 times for bating and Royal Challangers Bangalore 80 times for fielding after taken decision on tosses.

1. [Does winning the toss implies winning the game?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#8)

**Ans :** Mumbai Indians implies 61 match on winning the game after 106 times winning the toss.

1. [How many times chasing team has won the match?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#9)

**Ans :** Mumbai Indians won 59 match as chasing team.

1. [Which team has played the most number of matches?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#11)

**Ans :** Mumbai Indians played 203 matches.

1. [Which team has won the most number of times?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#12)

**Ans :** Mumbai Indians four times.

1. [Who has hit the most number of 4's?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#24)

**Ans :** G Gambhir hits the most 4’s total of 1232 on this season.

1. [Who has hit the most number of 6's?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#25)

**Ans :** SK Raina hits the most 6’s total of 1782 on this season.

1. [Who has the highest strike rate?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#26)

**Ans :** Andre Russell has the highest batting strike rate of 179.29

1. [Who is the leading wicket-taker?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#27)

**Ans :** Lasith Malinga has most wickets with 170.

1. [Which stadium has hosted the most number of matches?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#28)

**Ans :** Wankhede Stadium in Mumbai hosted the highest number of 76 matches.

1. [Who has won the most MOM awards?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#29)

**Ans :** Jacques Kallis holds the record for highest number of award won with 23 in 166 matches played.

1. [Which team has scored the most runs in the first 6 overs?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#34)

**Ans :** Royal Challengers Bangalore scored 29126 runs in first 6 overs.

1. [Which team has scored the most runs in the first 4 overs?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#35)

**Ans :** Mumbai Indians scored 20729 runs in first 4 overs.

1. [Which team has the best scoring run-rate in the last 6 overs?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#36)

**Ans :** Mumbai Indians scored 16994 runs in last 6 overs.

1. [Which team has the best scoring run-rate in the last 4 overs?](https://www.kaggle.com/saiswaroop018/ipl-data-analysis-and-visualization-project#37)

**Ans :** Mumbai Indians scored 6357 runs in last 4 overs.

**Recommendation**

In IPL data analysis we can find out the pros and cons of the player and work on the performance of the individual player and also it will help in taking decision. The application can be used for the selection commission to select the best player including bowler, batsman and even the fielder for the team and to perform well on the field during match.