Capstone Project - EDA
IPL T20 Cricket Analysis

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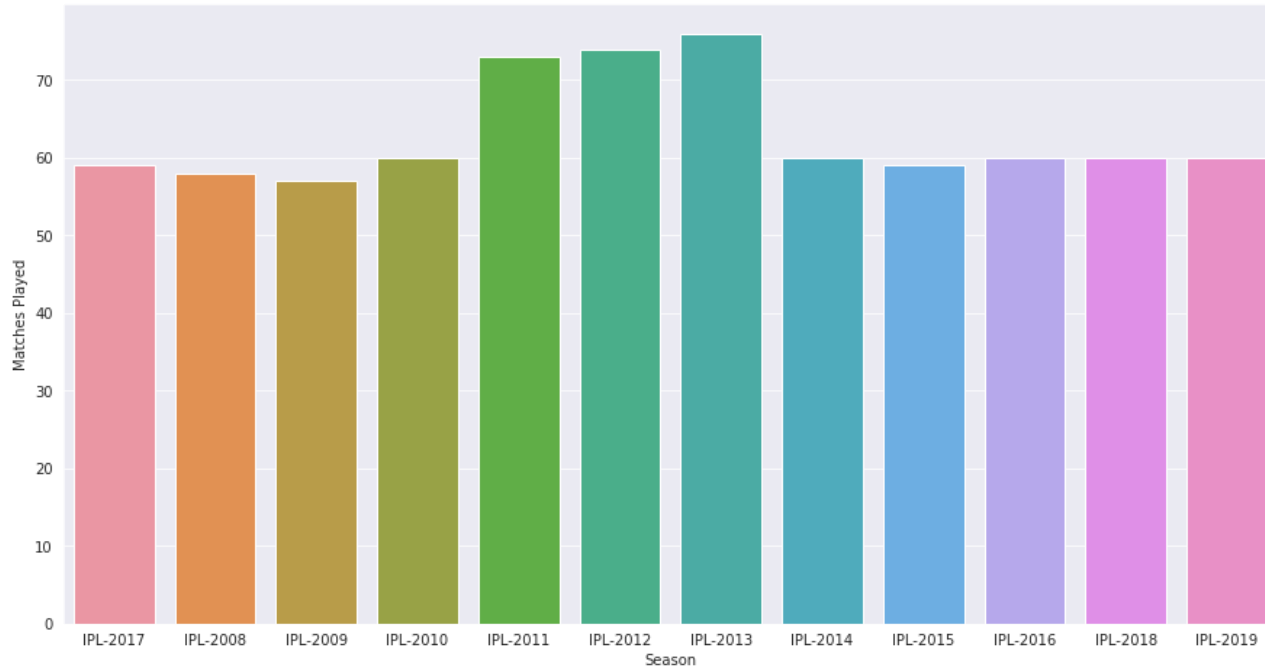**Bowling Analysis**

INTRODUCTION

IPL is a professional Twenty20 cricket league in India contested during April and May of every year by teams representing Indian Cities.

Founded by BCCI and it is now the most attended cricket league in the world and ranks sixth among all sports league.

In 2010 ,the IPL became the first sporting event in the world to be broadcasted live on YouTube.
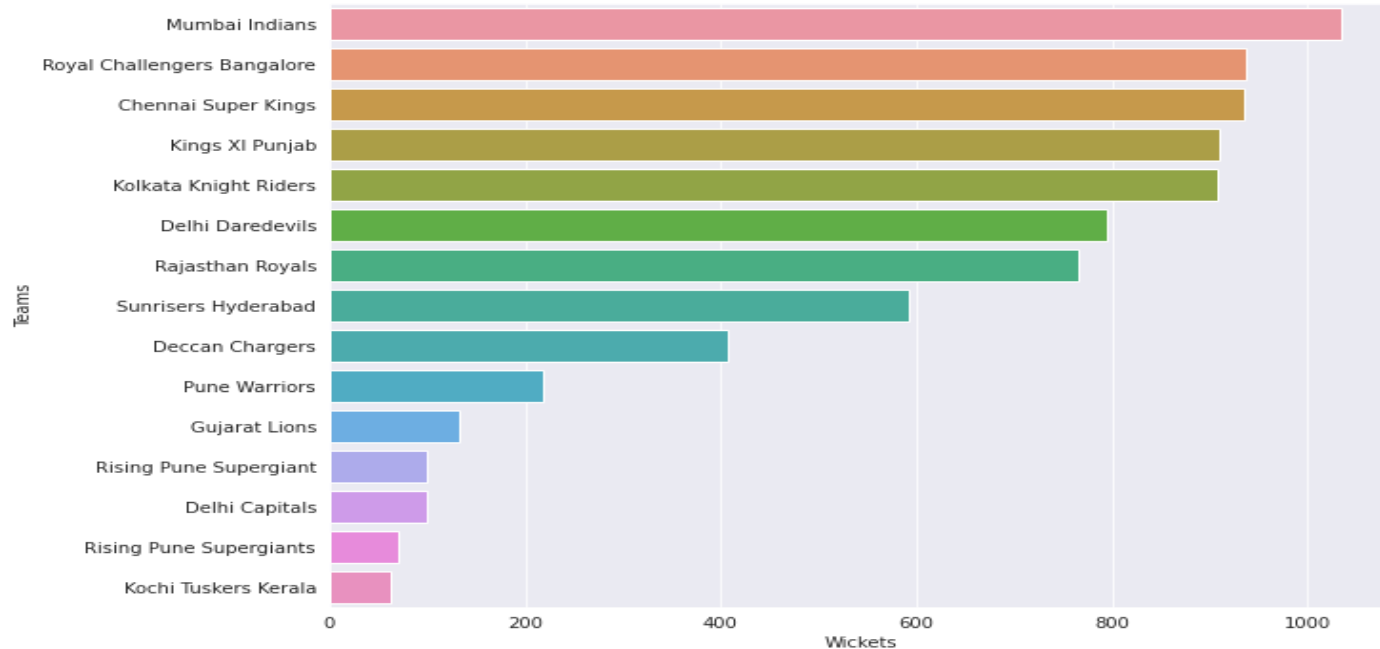
General Analysis of IPL Matches

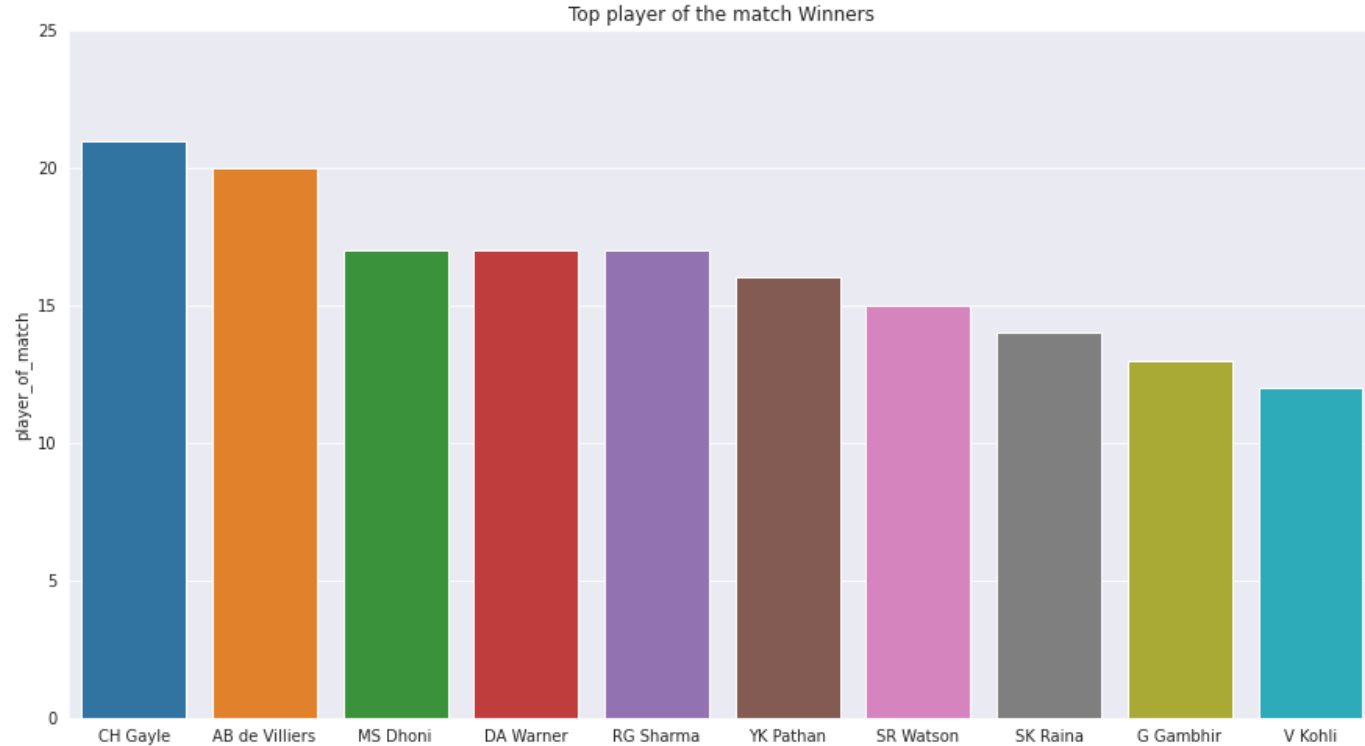**Which season had most number of matches?**

We can see the most number matches played in the season of IPL-2013 compared to all seasons

The most successful IPL Team

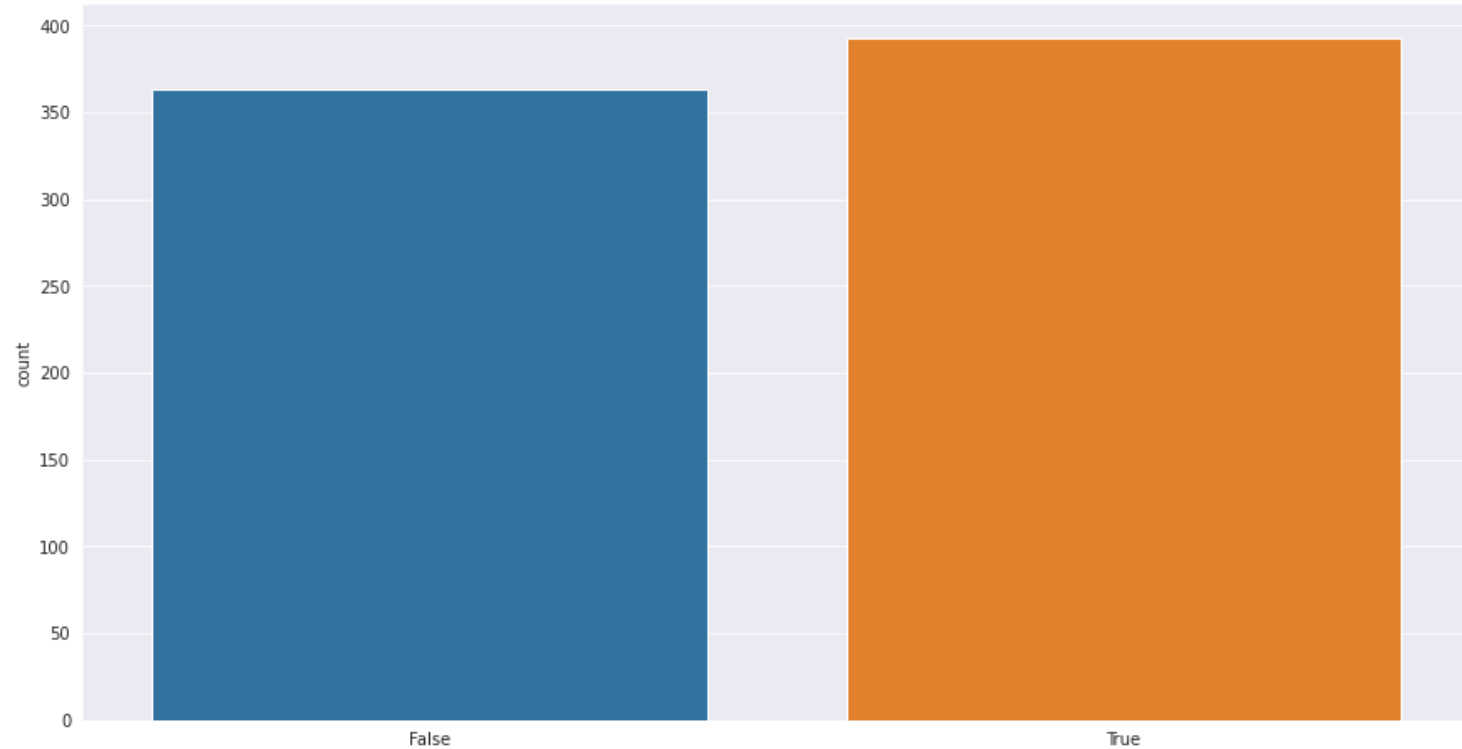**Mumbai Indians is the most successful team followed by Royal Challengers Bangaore and Chennai Super Kings.**

Top player of the match Winners

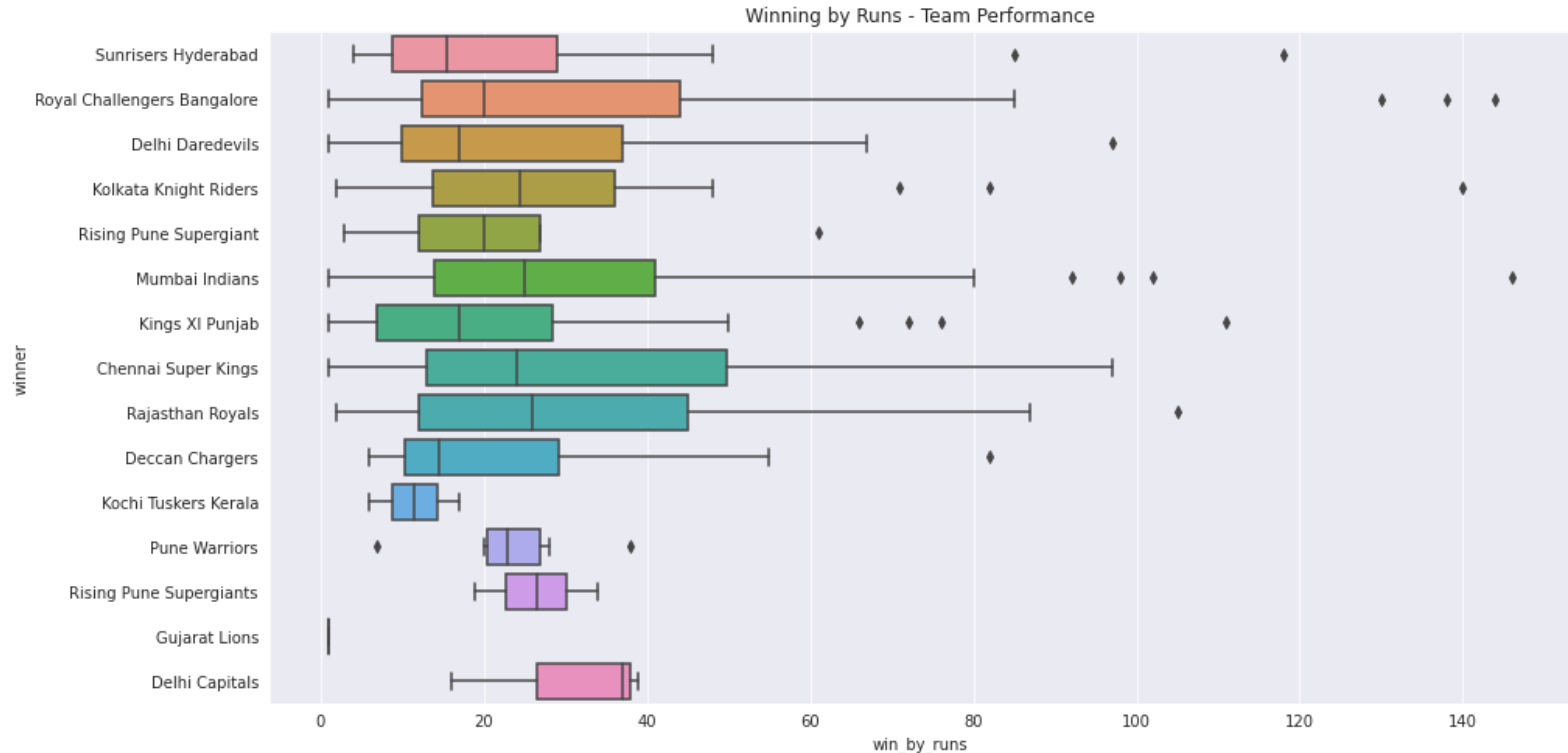Top player of the match Winners

- **Cris Gayle is the player who won the most player of the match awards and hence is the most valuable player.**
- **Six Indian players have figured in the top ten IPL players list.**

How many Toss winning teams have won the matches?

In IPL history there are 393 matches toss winning team has won the matches and 363 matches toss winning team has loss the matches.
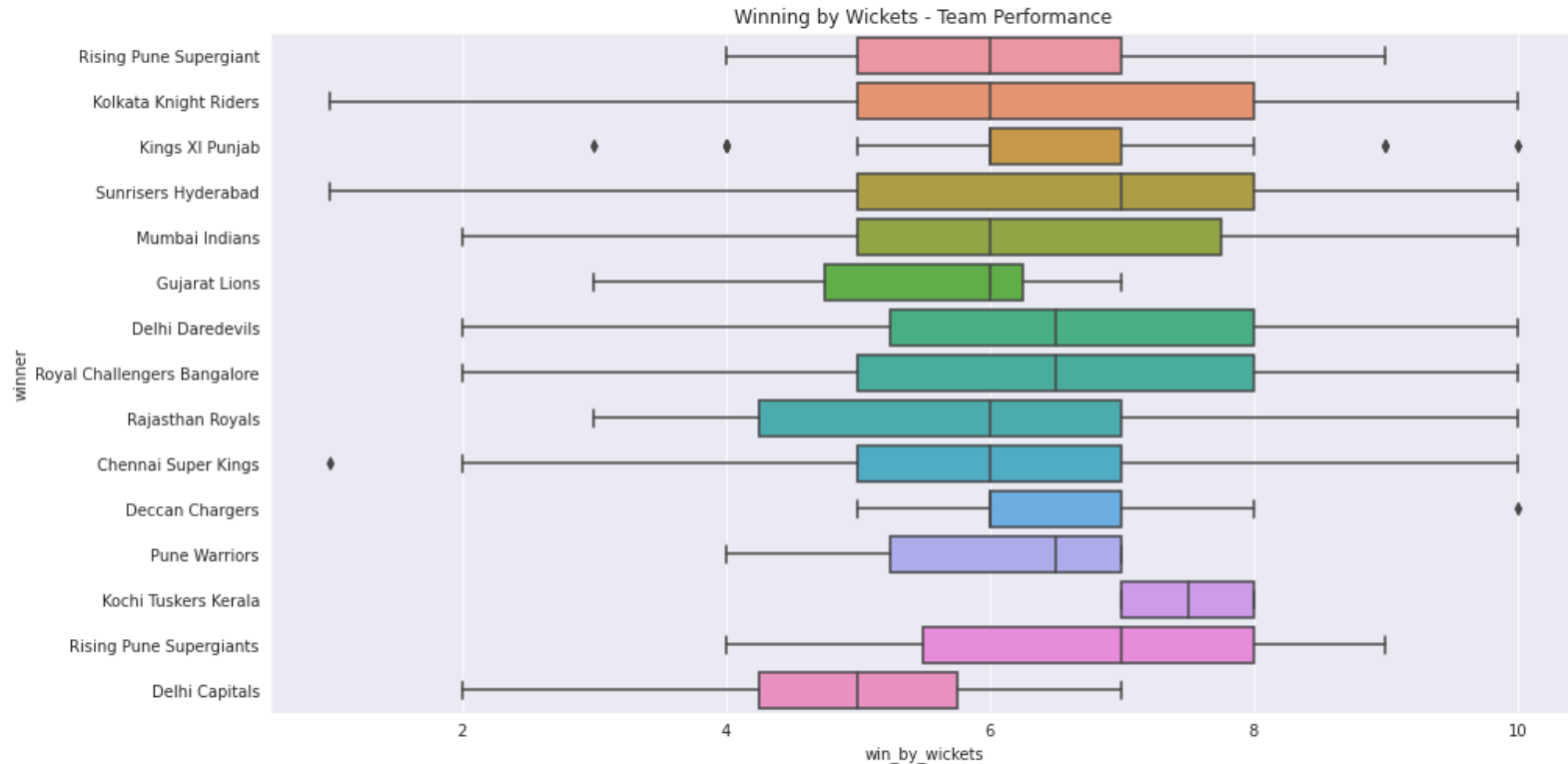
Team Performance – Winning by Runs

Winning by Runs - Team Performance

The above winner output list show the overall IPL team performance based on their median Runs.

Team Performance – Winning by Runs (continued...)

```
winner
Delhi Capitals                    37.0
Rising Pune Supergiants           26.5
Rajasthan Royals                  26.0
Mumbai Indians                    25.0
Kolkata Knight Riders             24.5
Chennai Super Kings               24.0
Pune Warriors                     23.0
Royal Challengers Bangalore       20.0
Rising Pune Supergiant            20.0
Kings XI Punjab                   17.0
Delhi Daredevils                  17.0
Sunrisers Hyderabad               15.5
Deccan Chargers                   14.5
Kochi Tuskers Kerala              11.5
Gujarat Lions                      1.0
```

The above winner output list show the overall IPL team performance based on their median Runs. The top winning team is Delhi Capitals.

Team Performance – Winning by Wickets

Winning by Wickets - Team Performance

The above winner output list show the overall IPL team performance based on their median Wickets.

AI

```
Kochi Tuskers Kerala              7.5
Sunrisers Hyderabad               7.0
Rising Pune Supergiants           7.0
Royal Challengers Bangalore       6.5
Pune Warriors                     6.5
Delhi Daredevils                  6.5
Rising Pune Supergiant            6.0
Rajasthan Royals                  6.0
Mumbai Indians                    6.0
Kolkata Knight Riders             6.0
Kings XI Punjab                   6.0
Gujarat Lions                     6.0
Deccan Chargers                   6.0
Chennai Super Kings               6.0
Delhi Capitals                    5.0
```

The above winner output list show the overall IPL team performance based on their median Wickets. The top winning team is Kochi Tuskers Kerala.

Most IPL Matches played in a Venue

Venue	Matches
Eden Gardens	77
Wankhede Stadium	73
M Chinnaswamy Stadium	73
Feroz Shah Kotla	67
Rajiv Gandhi International Stadium, Uppal	56
MA Chidambaram Stadium, Chepauk	49
Sawai Mansingh Stadium	47
Punjab Cricket Association Stadium, Mohali	35
Maharashtra Cricket Association Stadium	21
Subrata Roy Sahara Stadium	17

- **Eden Gardens has hosted the maximum number of IPL matches followed by Wankhede Stadium and M Chinnaswamy Stadium.**

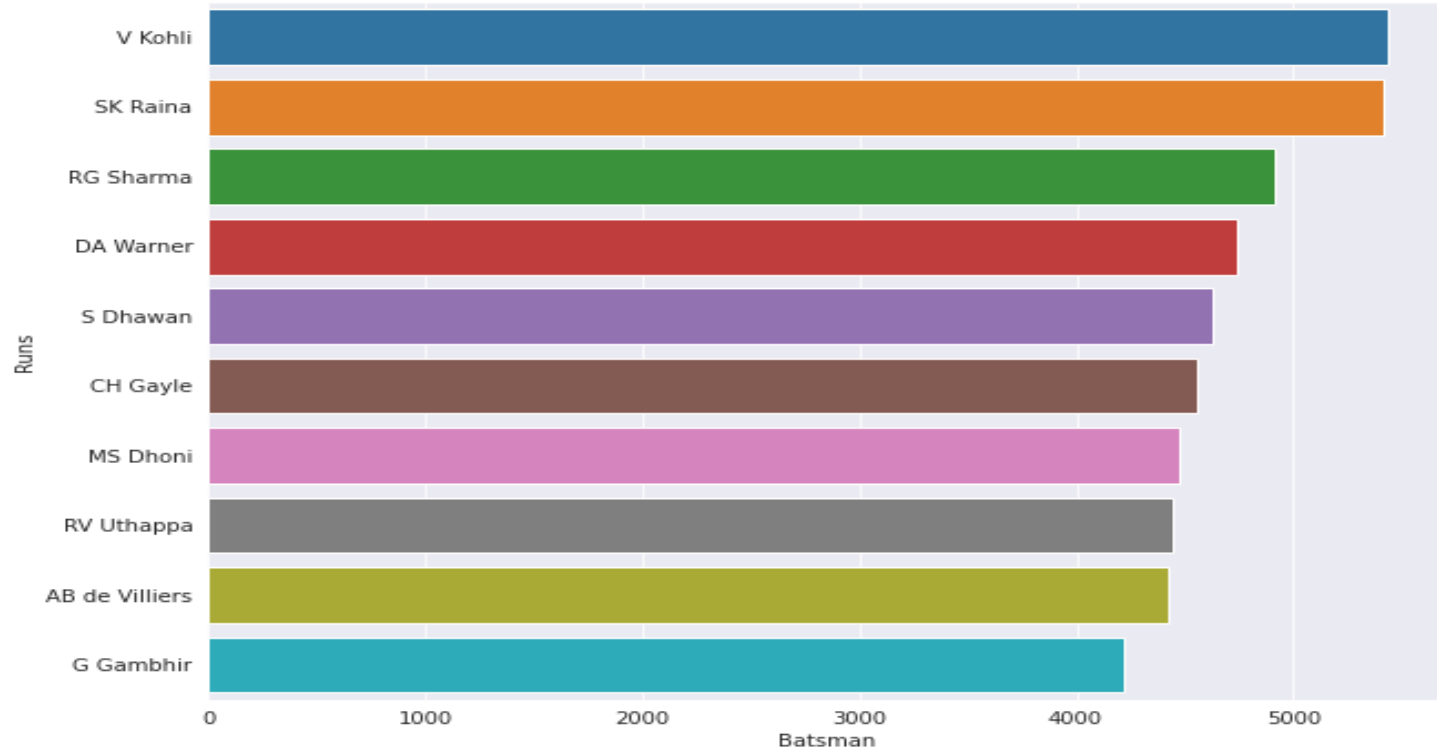- **Till 2019, IPL matches were hosted by 40 venues.**

IPL Batting Analysis

Most Run Scored by IPL Teams

AI

```
batting_team
Mumbai Indians                    29809
Royal Challengers Bangalore       28126
Kings XI Punjab                   27893
Kolkata Knight Riders             27419
Chennai Super Kings               26418
Delhi Daredevils                  24388
Rajasthan Royals                  22431
Sunrisers Hyderabad               17059
Deccan Chargers                   11463
Pune Warriors                      6358
Gujarat Lions                      4862
Delhi Capitals                     2630
Rising Pune Supergiant             2470
Rising Pune Supergiants            2063
Kochi Tuskers Kerala               1901
```

Mumbai Indians are the highest run scored team in the all IPL season.

Most IPL Runs by a Batsman
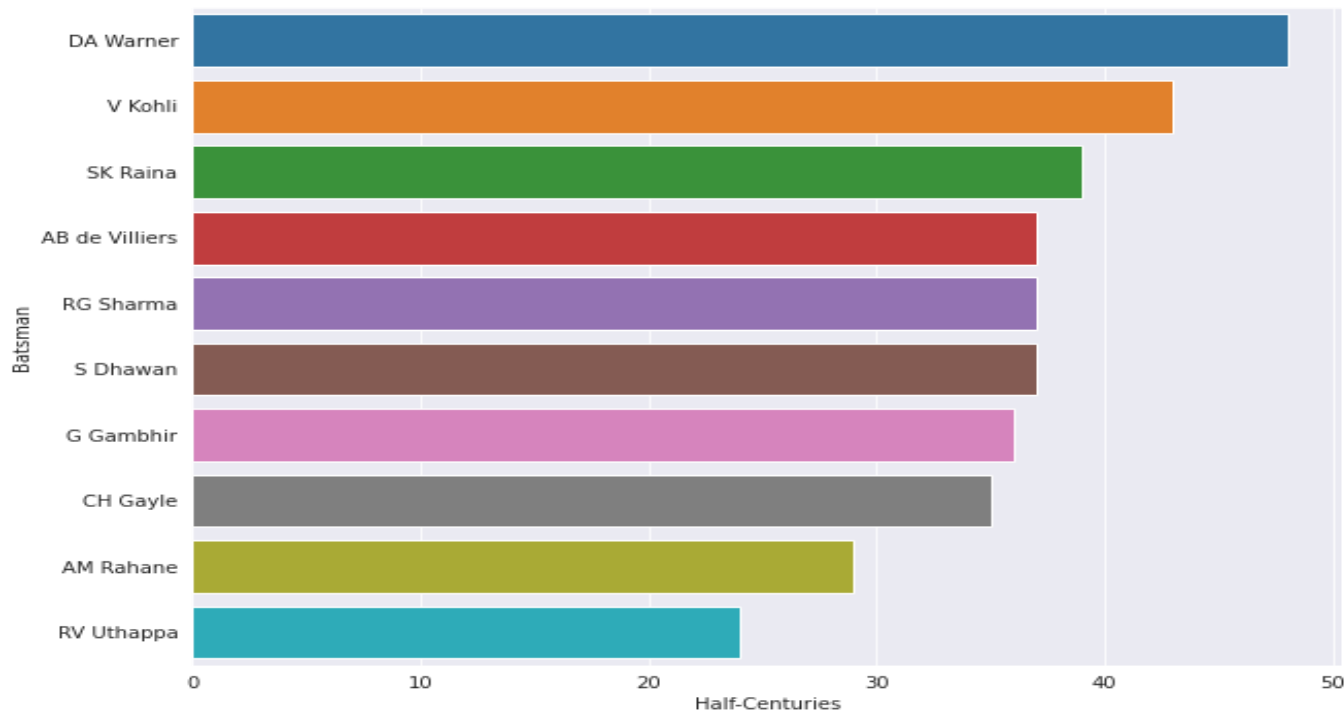

In IPL all season most of the runs earned batsman is V Kohli.

Most IPL Century by a Player

```
batsman
CH Gayle              7
V Kohli               5
DA Warner             4
SR Watson             4
AB de Villiers        3
M Vijay               2
BB McCullum           2
HM Amla               2
KL Rahul              2
AM Rahane             2
```

- **The Universe Boss Chris Gayle is at the top of the list in scoring the most number of centuries in IPL history.**
- **His former teammate Virat Kohli has scored five hundred's and he is at the second spot in the**
- **list followed by David Warner, SR Watson, AB de Villiers.**
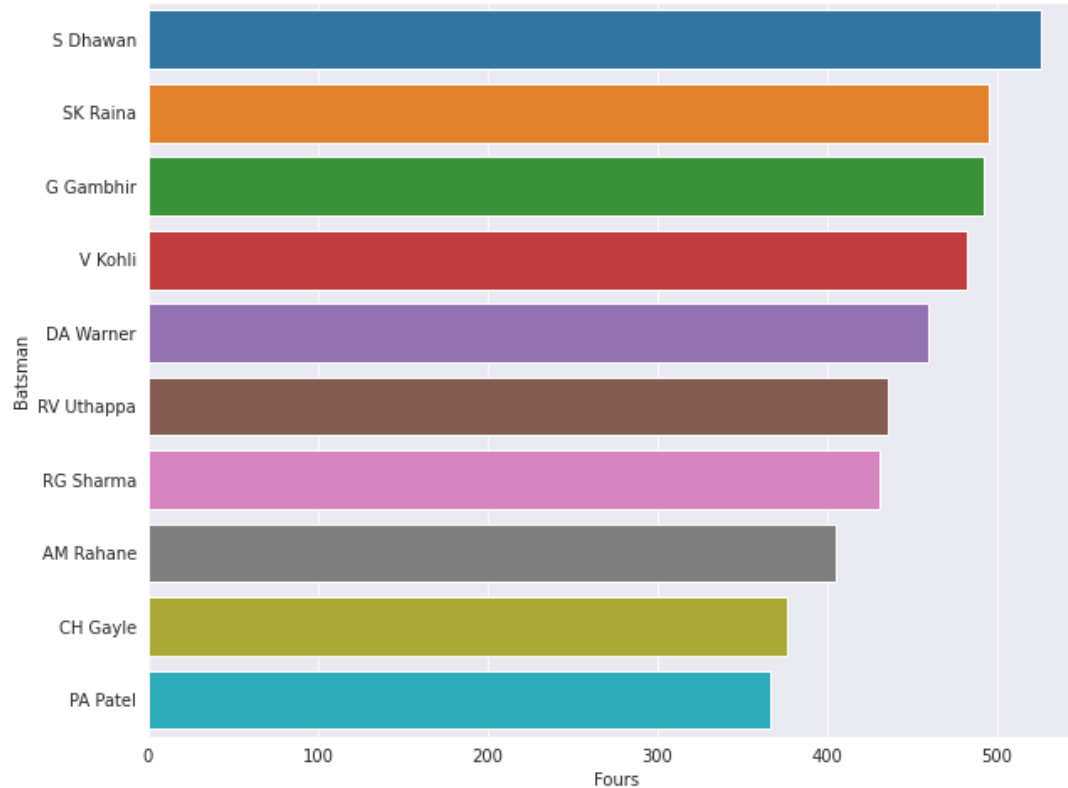
Most IPL Fifty by Player

When a number of the fifties comes Warner is top in the list followed by Virat Kohli and SK Raina.

Most Sixes in an IPL Inning

```
batsman
CH Gayle            17
BB McCullum         13
CH Gayle            13
AB de Villiers      12
CH Gayle            12
AD Russell          11
M Vijay             11
CH Gayle            11
ST Jayasuriya       11
AC Gilchrist        10
```

Chris Gayle has hit the highest number of sixes in an inning with the number being 17 in the entire IPL history.
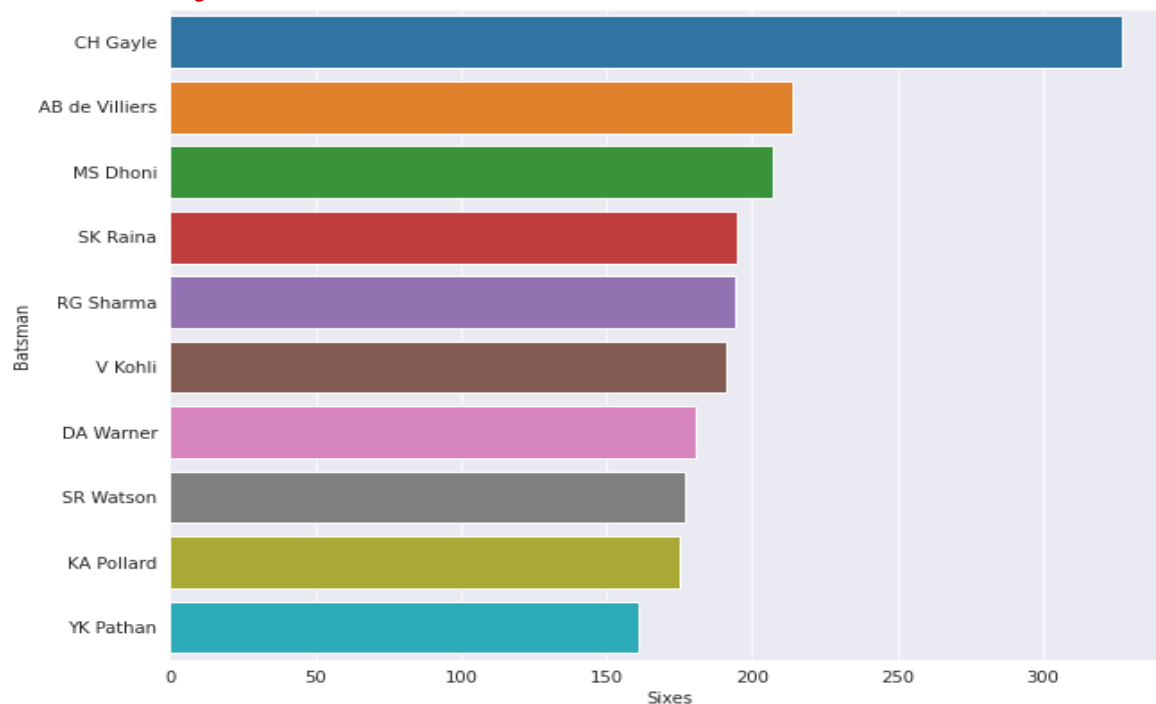
Most Boundary (4s) hit by a Batsman

The Indian Shikhar Dhawan is at the top of the list with more than 500 boundaries followed by SK Raina and G Gambhir.

Highest Total by IPL Teams

```
batting_team
Royal Challengers Bangalore      263
Kolkata Knight Riders            250
Royal Challengers Bangalore      248
Chennai Super Kings              246
Kolkata Knight Riders            241
Chennai Super Kings              240
Royal Challengers Bangalore      235
Sunrisers Hyderabad              233
Sunrisers Hyderabad              232
Kings XI Punjab                  232
```

Royal Challengers Bangalore is at the top of the list of highest run by a team. The match was played against Pune Warrior in the 2019 season.

Most IPL Sixes Hit by a batsman

The universe Boss, Chris gale is at the top of the list in the most hitting sixes followed by AB De Villiers and MS Dhoni.
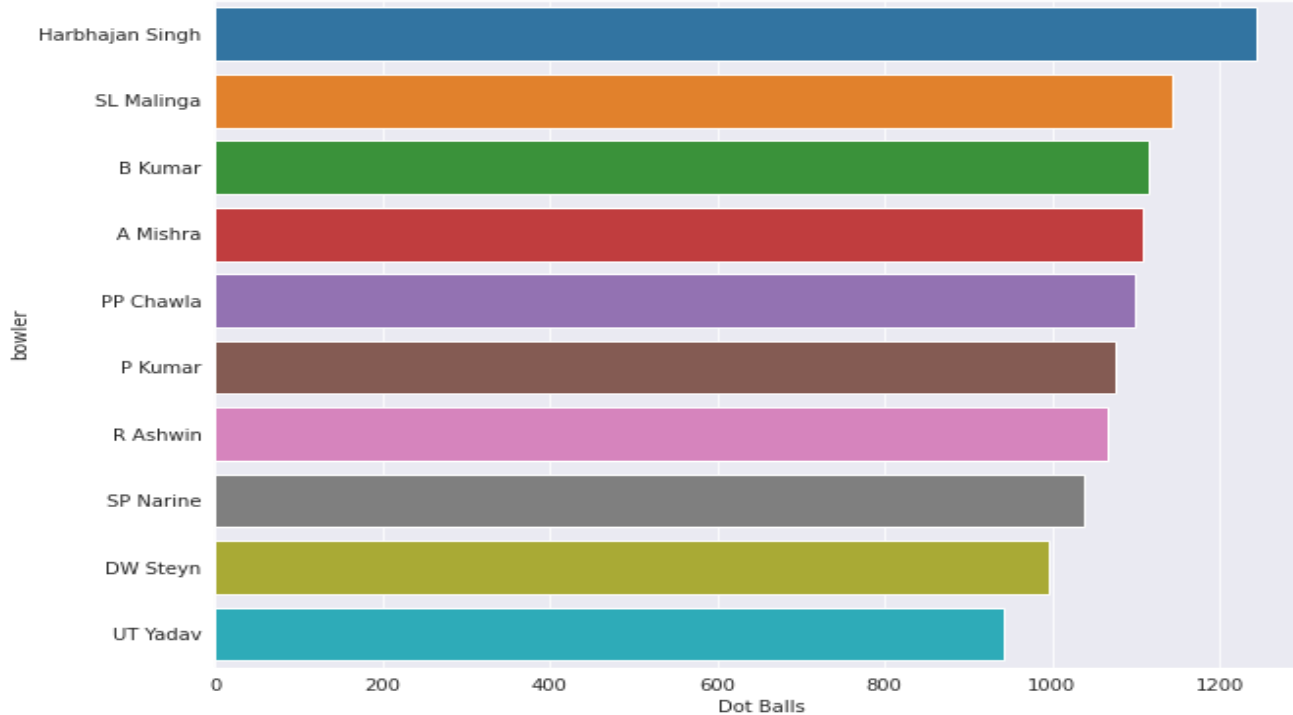
Bowling Analysis

Most IPL Wickets by a Bowler

```
SL Malinga          170
A Mishra            156
Harbhajan Singh     150
PP Chawla           149
DJ Bravo            147
B Kumar             133
R Ashwin            125
SP Narine           122
UT Yadav            119
RA Jadeja           108
```

Srilankan bowler Malinga is at the top of the list with 170 wickets followed by Amit Mishra and Harbhajan Singh with 156 and 150 wickets respectively.
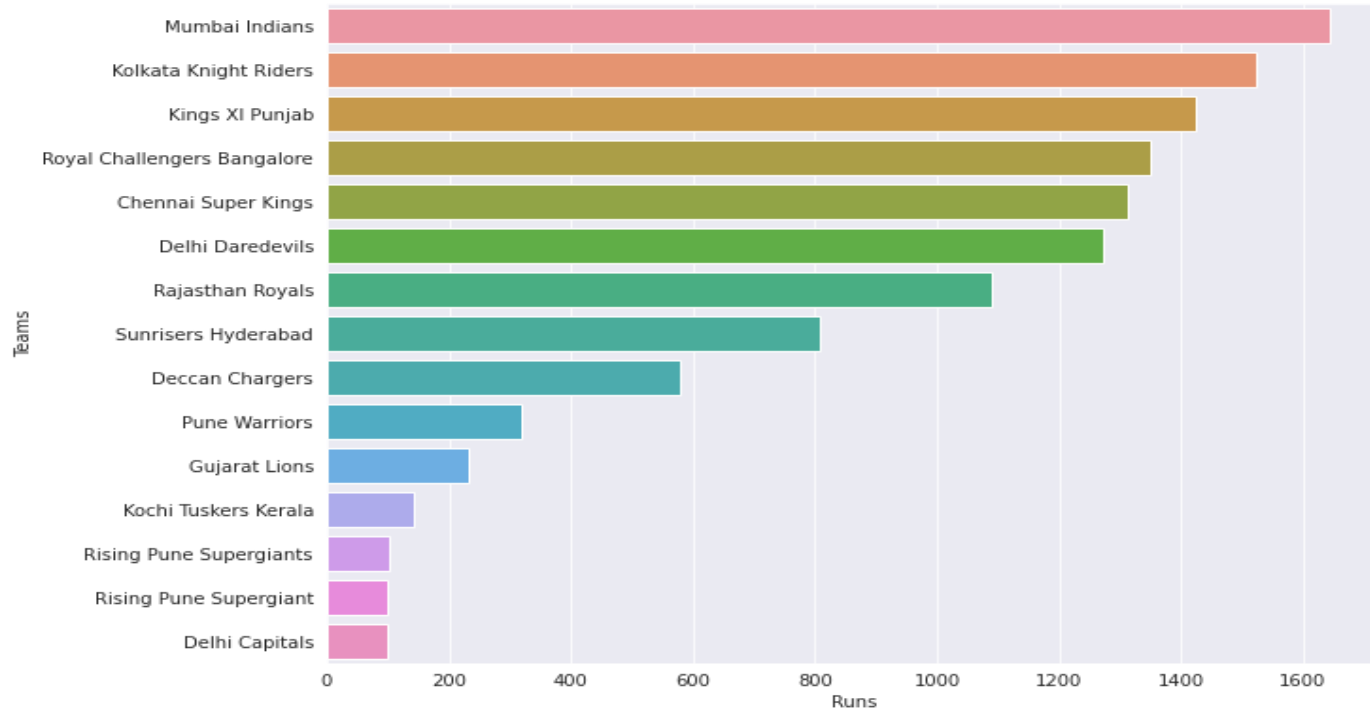
Most Dot Ball by a Bowler

The Indian bowler Harbhajan Singh has bowled the most number of Dot balls followed by SL Malinga and B kumar.

Most Maiden over by a Bowler

```
P Kumar              12
IK Pathan             9
DW Steyn              8
SL Malinga            8
DS Kulkarni           7
B Kumar               7
Sandeep Sharma        6
DJ Bravo              6
Z Khan                5
R Ashwin              5
```

Indian bowler Praveen Kumar is at the top of the list with the most maiden overs followed by Irfan Pathan and Dale Steyn.

Most Wickets by an IPL Team

The Mumbai Indian has taken the most number of wickets in IPL followed by Royal Challengers Banglore and Chennai Super Kings

CONCLUSION

Mumbai Indians is the most successful team in IPL.

Chris Gayle has won the maximum number of player of the match title.

Six Indian players have figured in the top ten IPL players list.

Eden Gardens has hosted the maximum number of IPL matches.

Till 2019, 40 venues have hosted 756 IPL matches.

Q &A