

# Capstone Project IPL T20 Cricket Analysis

by

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It is one of the biggest Cricket League in the World, where all the Cricketer's from different part of the world participate in this Tournament.

This tournament is scheduled once in a year in the month of April/May. For all the cricket fans in India, it is be like a festival.



# **Data Summary**

- Matches Dataset: This dataset consists information abount the Venues, Players, Umpires, Toss decisions in 696 matches of IPL from 2008-2019.
- Delivery Dataset: This dataset consists ball by ball information about 696 matches of IPL from 2008-2019
- Teams Dataset: This data set consists the information of each team from 2008-2019

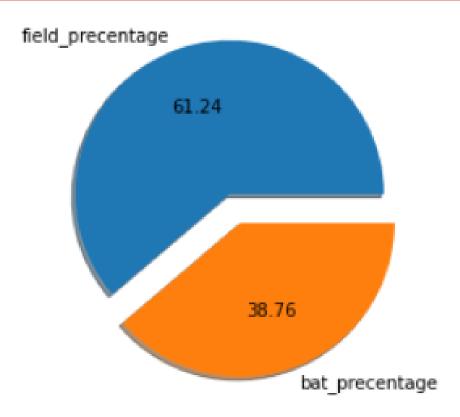


# **Discussion**

- Toss decision made in IPL season.
- Match won by winning the toss opted for field or bat
- · Best Bowlers in terms of wickets.
- Best Bowling team in terms of economy
- Highest sum of score by teams in each season
- Is scoring over the years is easy
- Most number of Man of the Matches in each season.
- Highest winning margin in terms of runs and wickets in each year.



#### Percentage of Toss decision made in IPL session





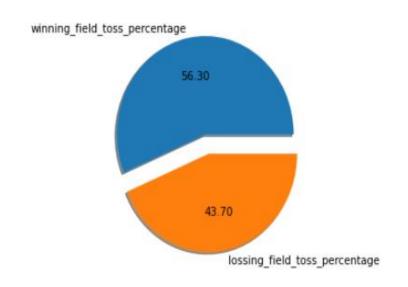
#### **Observation**

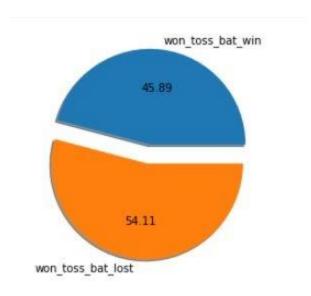
- From the above EDA, we observed that winning toss percentage choosed to bat or field for all the IPL session from 2008 - 2019.
- The team Won toss and choosed for field is 61.24%
- The team won toss and choosed for batting is 38.76%
- The teams are winning the toss and choosed for fielding are mostly.





#### Match won by Winning the toss elected to field or Bat







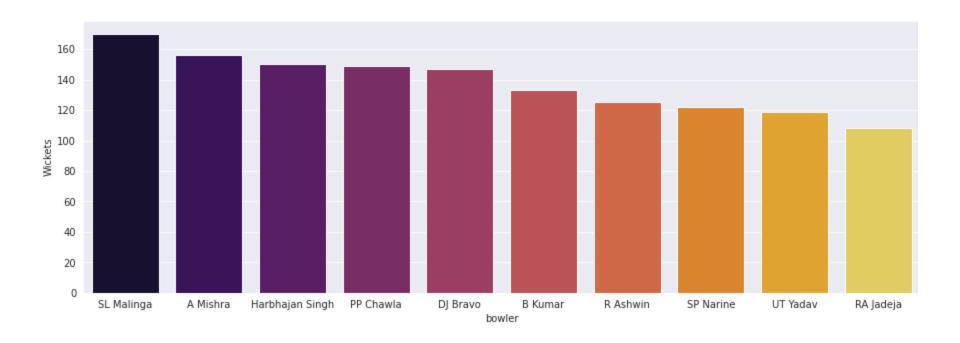
#### **Observation**:

- 756 matches had been played between 2008 – 2019.
- We have observed that when team won the toss and opt for field they have 56.30% winning percentage.
- When team had won the toss and elected to bat first have won the matches by 45.89%.





#### Best Wicket Takers In IPL(2008-2020)





#### **Best Bowler**



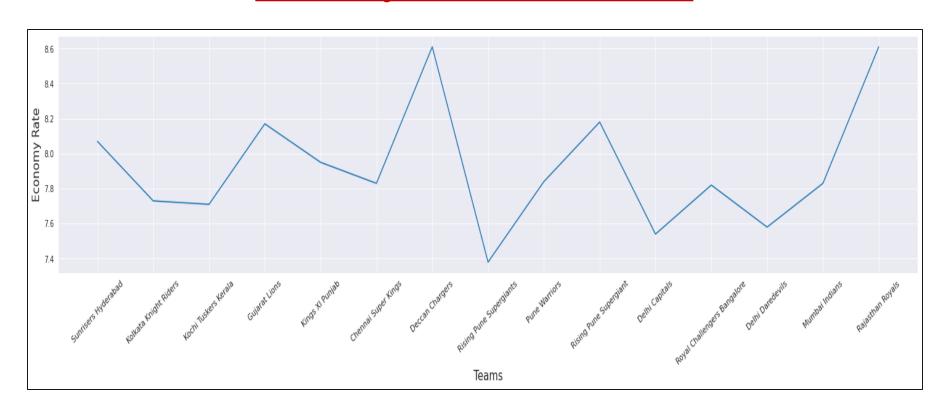
**LASITH MALINGA** 

Name	Lasith Malinga
Age	37
Nationality	Sri-Lanka
IPL Team	Mumbai Indians
Total Wickets	170

- Lasith Malinga has taken 170 wicket in his IPL career which makes him best wicket tacking bowler in IPL.
- Malinga is followed by Indian bowler Amit Mishra with 155 total wickets.
- Harbhajan Singh has took 150 wickets in IPL, Also he is close competitor to Amit Mishra.



#### **Economy Rate of Each Team**









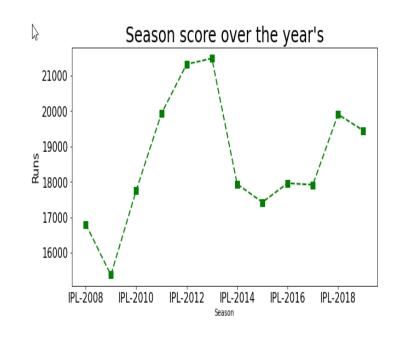
- T-20 Cricket is often considered as Batsman's Game, but these two teams have changed the Entire Picture.
- Rising Pune Supergiants have the best bowling attack although they have maintained lowest Economy rate in IPL.
- Rising Pune Supergiants is followed by Delhi Capitals with Economy Rate of 7.53.
- By Comparing the graph, we can conclude that Rajasthan Royals and Deccan Chargers have weakest bowling attack.



### Is scoring runs in seasons is easy over the

#### years?

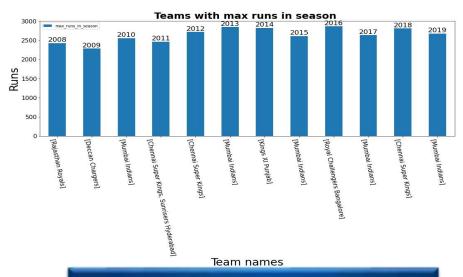
- It is been observe that there has been drastic fall in runs between IPL season 2013 & 2014.
- The reason for these is in IPL season 2013 total no. of matches played were '76' while in season IPL-2014 total no. of matches played were '60'.
- Reason for reduction in no. of matches played is in IPL-2014 one teams was dropped and only 8 teams were playing as compared to previous season which had 9 teams.
- Team withdrawn was 'Pune Warriors India'





#### Highest score by teams in each season

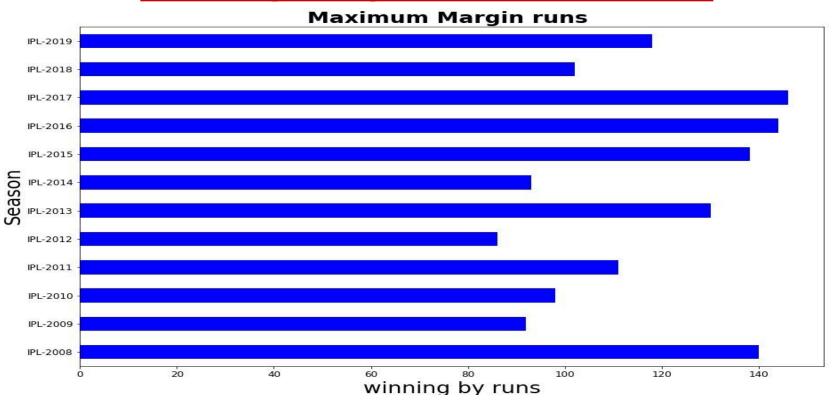
- The highest total runs scored by the team from IPL 2008 - 2019.
- We can also see that the team repeating, which has score max run in each season.
- 'Mumbai Indian' is a team who have score '5-times' max runs in all seasons.







#### Winning Margin in terms of runs





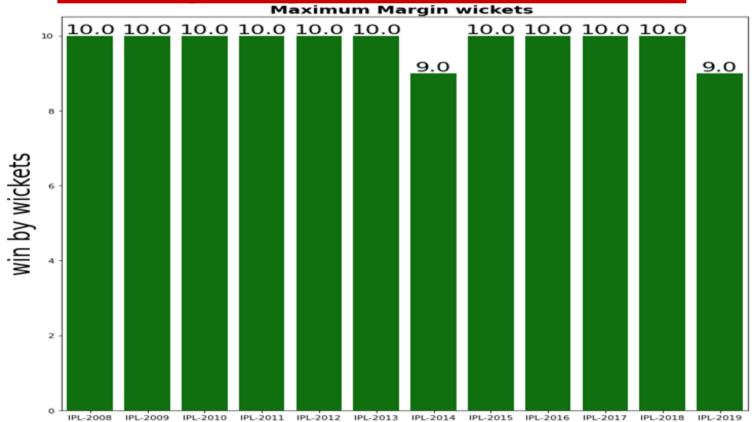
#### **Observation**

- We observed that in each season of IPL, winning margin in terms of runs vary.
- We observed that 146 is the highest winning and 86 is lowest winning margin as compared to other seasons.
- We also observed that Mean value of this winning margin runs is 116.5.
- From this analysis we can conclude that in upcoming seasons highest margin win in terms of runs will be in the range between 86-146 runs.





#### Winning margin in terms of wickets





#### **Observation**

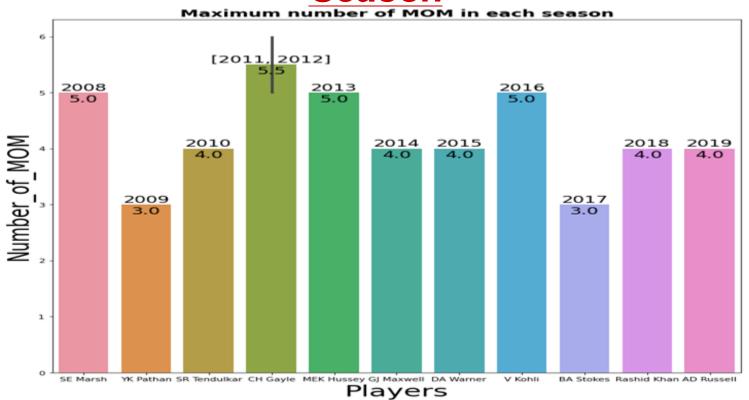
- we observed that in each season of IPL, Highest winning margin in terms of wickets is almost equals to 10.
- We observed that maximum winning margin in terms of wickets is 10 for almost all the seasons.
- We also observed that mean value of this margin wickets is 9.83 almost equal to 10.
- From this analysis we can conclude that in upcoming seasons highest margin win in terms of wickets will be in the range between 9-10 wickets.





#### Maximum number of Man of the Match in each







#### **Observation**

- We observed that in each season of IPL, Max number of Man of the match won by a single player at the end of the each season varies.
- In IPL-2011 and IPL-2012 CH Gayle has won maximum number of Man of Match award as compared to other players.
- From this analysis we can conclude that a single player had won maximum 6 man of the match award.
- We also observed that mean value of this MOM is 4.3.







## **Conclusion**

- Maximum times when team won the toss, they opt for field first.
- Team who won the toss and opted for batting have lost a greater number of matches.
- Scoring runs in IPL after season IPL-2013 is been difficult.
- Mumbai Indian is a team who has scored the maximum time highest runs in all seasons.
- Lasith Malinga is best bowler in IPL.
- Rising Pune Supergiants had the best bowling attack.
- Chris Gayle has won maximum number of man of the match i.e 6 times in IPL 2011.
- Highest winning margin in terms of runs is 146 runs and in terms of wickets its 10.



# Thank you