1 INTRODUCTION

As mentioned in the description of the problem statement, IPL has become the highest revenue-generating league cricket. So, Analyzing the data that have been storing the vast data of the IPL till now can help us predict the scores, winning team sometimes even the man of the match. There will be quite interesting to analyze the IPL game.

2 LITERATURE SURVEY

There are many sites for the analyzed data information but not a single page, so here the novelty is all the data in a single dashboard, using the machine learning algorithm, we can predict the approximate score and also the man of the match, So this is the novelty of the solution.

3 THEORITICAL ANALYSIS

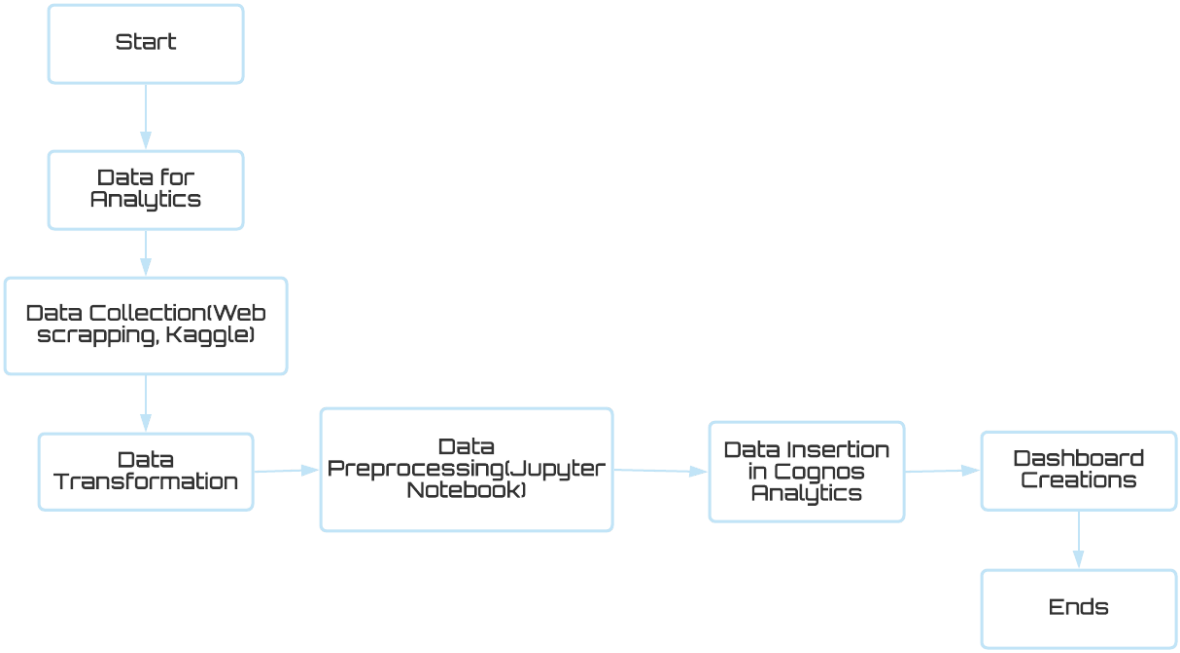
TOOLS	IBM Cognitive Analytics, Jupyter Notebook
LANGUAGE	Python
OS	Windows

4 EXPERIMENTAL INVESTIGATIONS

The Data is not available for 2020 and many, so it was been collected by web scrapping and by my hands.

All the mentioned problem was quite interesting, typically the 3rd one which was little challenging so for that I wasted a lot of hours, so I made modifications. I made a new column name lost the team and written a simple python code which helped me to solve it.

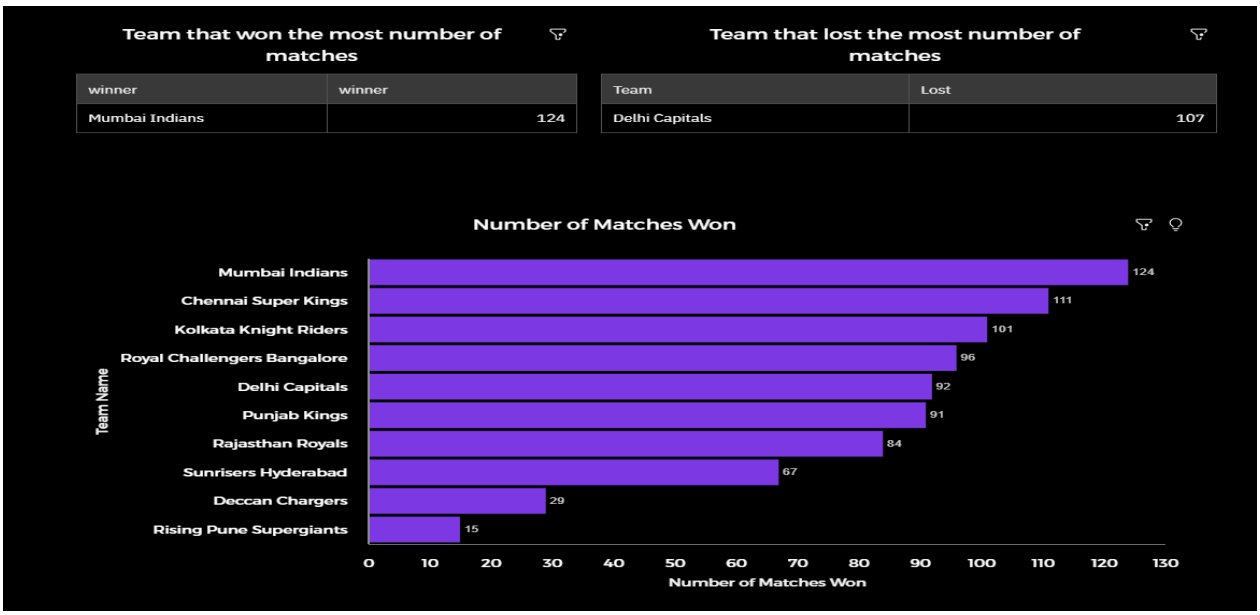
5 FLOWCHART



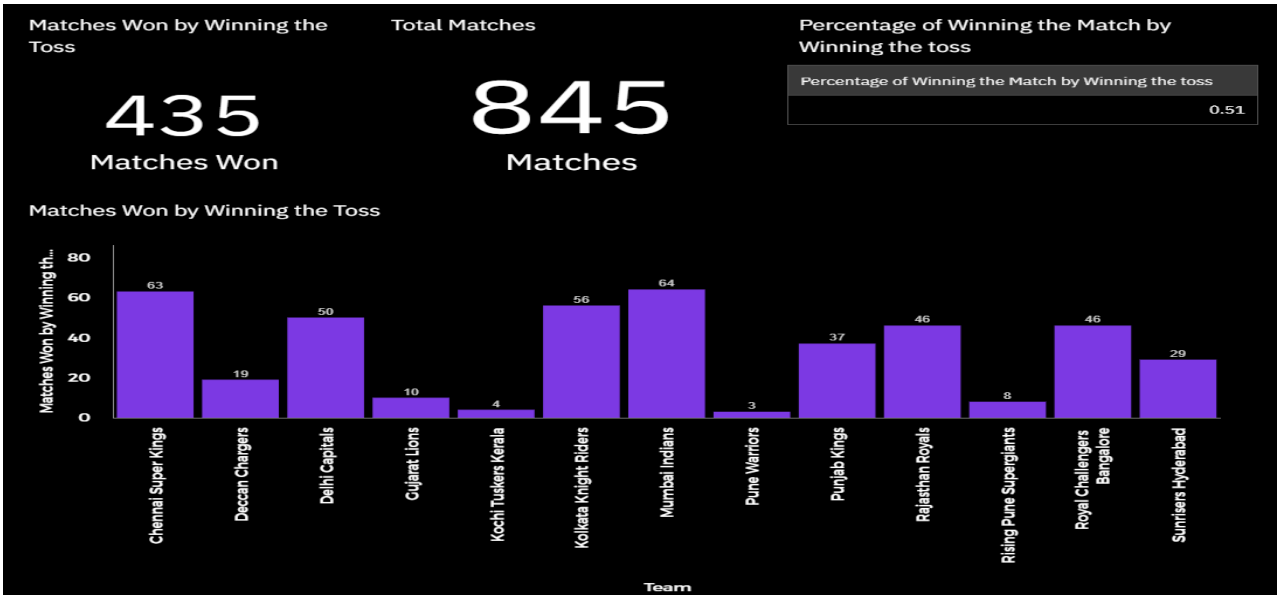
6 RESULT

Screenshots:

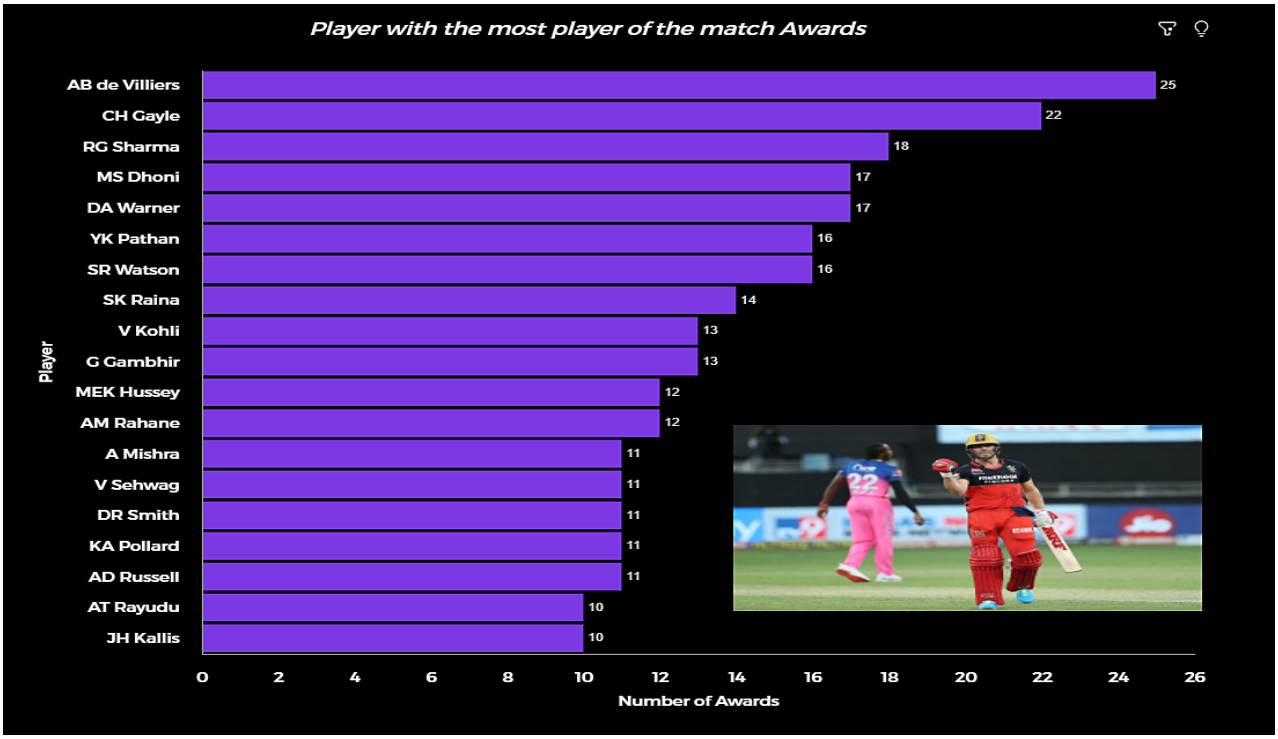
1To find the team that won the most number of matches in the entire IPL and the Team that lost most number of matches:



2.Does winning a toss increase the chances of victory:



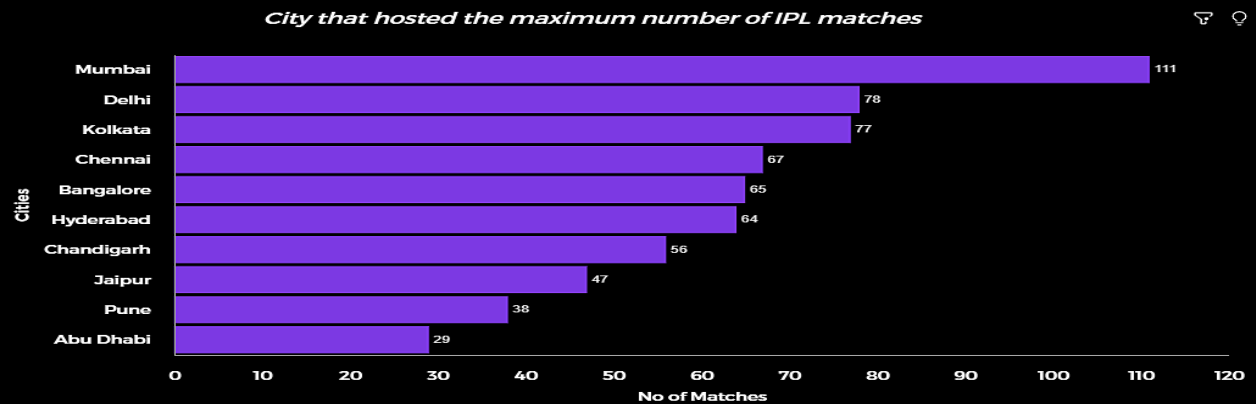
3.To find the player with the most player of the match awards:



4. To find the city that hosted the maximum number of IPL matches.

Highest Hosted Cities

city	city
Mumbai	111



5. To find the most winning team for each season.

Most winning team for each season

season	short_name
2008	RR
2009	DC
2010	MI
2011	RCB
2012	DC
2013	CSK
2014	PBKS
2015	CSK
2016	GL
2017	MI
2018	SRH
2019	MI
2020	MI
2021	DC

6. To find the on-field umpire with the maximum number of IPL matches.

On-field umpire-2 with the maximum number of IPL matches

umpire2	Number of Matches
S Ravi	84
C Shamshuddin	60
SJA Taufel	54
CK Nandan	49
RJ Tucker	41
Nitin Menon	37
BNJ Oxenford	32
VA Kulkarni	31
AK Chaudhary	31
RB Tiffin	30
SK Tarapore	26
M Erasmus	25
AM Saheba	23
RE Koertzen	21
VK Sharma	20
PR Reiffel	19

On-field umpire-1 with the maximum number of IPL matches

umpire1	Number of Match
HDPK Dharmasena	78
AK Chaudhary	56
Asad Rauf	51
M Erasmus	40
Aleem Dar	38
S Ravi	37
BF Bowden	37
CB Gaffaney	34
BR Doctrove	34
KN Ananthapadmanabhan	33
AY Dandekar	28
Nitin Menon	25
C Shamshuddin	22
NJ Llong	21
RE Koertzen	20
VA Kulkarni	19

7. To find the biggest victories in IPL while defending a total and while chasing a total.

Biggest victories in IPL while defending a total

winner	win_by_runs
Mumbai Indians	146
Royal Challengers Bangalore	144
Kolkata Knight Riders	140
Sunrisers Hyderabad	118
Kings XI Punjab	111
Rajasthan Royals	105
Delhi Daredevils	97
Chennai Super Kings	97
Deccan Chargers	82
Rising Pune Supergiant	61
Delhi Capitals	39

Biggest victories in IPL while chasing a total

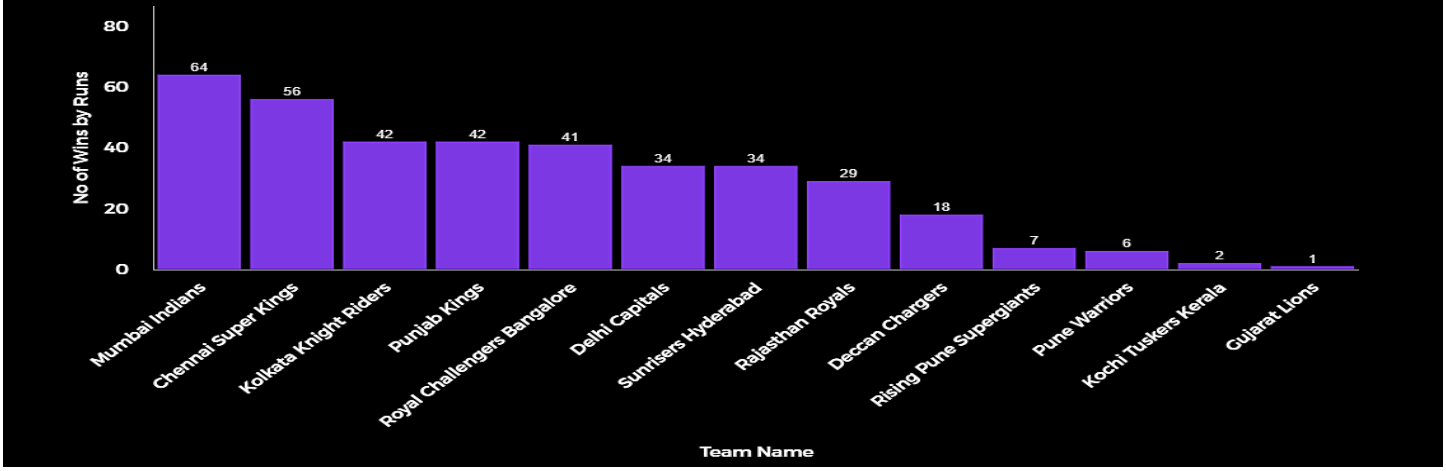
winner	win_by_wickets
Kings XI Punjab	10
Delhi Daredevils	10
Rajasthan Royals	10
Sunrisers Hyderabad	10
Royal Challengers Bangalore	10
Chennai Super Kings	10
Deccan Chargers	10
Kolkata Knight Riders	10
Mumbai Indians	10
Rising Pune Supergiants	9
Rising Pune Supergiant	9
Kochi Tuskers Kerala	8
Gujarat Lions	7
Pune Warriors	7
Delhi Capitals	7

8. Which team won the most matches while batting first.

Best Defending Champs

winner	result
Mumbai Indians	64

Defending Champs

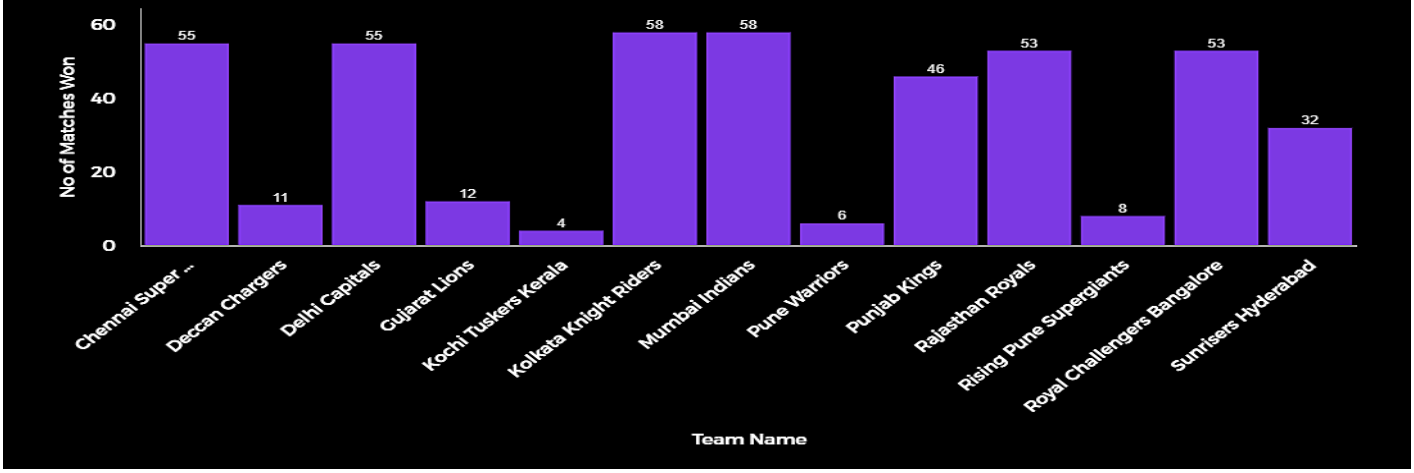


9. Which team won the most matches while batting second.

Best Teams in Chasing

winner	result
Kolkata Knight Riders	58
Mumbai Indians	58

Team won the most matches while batting second



10. List of teams which have won matches by most runs cumulatively

Project Demonstration Link :

https://youtu.be/VMKzQWq0AVM

Dashboard Link:
https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.public_folders%2FHackchallenge%2FIPL-HACKCHALLENGE&action=view&mode=dashboard&subView=model0000017ad88fb639_00000001

7 ADVANTAGES & DISADVANTAGES

7.1.1 ADVANTAGES :

There are many applications for testing the predicted values so that we can earn money through the applications. For the other people, they will consider it as gambling but in our vision, it will be called predictive analysis.

7.1.2 DISADVANTAGES :

This project has not that many disadvantages because we invest in means very much affordable money, but we get a very big return.

8 APPLICATIONS

By using the dashboard we can predict the winners of the match before it started it is called predictive analysis.
By using the model we created which can predict the runs
We can make use of these predictions in dream 11 or many platforms.

9 CONCLUSION

- Dashboard created with the total history of Indian Premier League 2008-2021
- Created a model that can predict the scores

10 FUTURE SCOPE

We can make the Best 11 team so that it makes it more effective and We can integrate with an app so that it will be a complete product

11 BIBILOGRAPHY

https://www.iplt20.com/stats