SUPER IPL LEAGUE PREDICTIONS

1 INTRODUCTION

1.1 Overview

Now a days data science has become so much trend and our project also come across that type of data science project

A Data science problem mainly deals with predictions and analysis. In this project we are going to predict the matches of most winning, losing players,

Toss by winners, decisions, and so on...

Creating dashboards which represent all these kinds of expected solutions

Cognos Analytics is more helpful for predicting data it gives a lot of model of framework Explore powerful visualizations of data in IBM® Cognos Analytics and discover patterns and relationships that impacts business. Then, communicate the insights that you discovered in a dashboard and share it with others.

With analytics dashboards, we can build sophisticated visualizations of your analytics results, and communicate the insights that we've discovered in the data on a dashboard.

1.2 Purpose

The use of this project. What can be achieved using this?

This project is done by taking previous IPLmatches data and predicted the expected goals with the help of cognos analytics

We can also predict the future matches, venues, teams, winning teams and losing teams. by taking historical data, reviews into account

The organizations who are accessing can easily predict the needs of a user can also give recommendations based upon high rated data

2 LITERATURE SURVEY

2.1 Existing problem

Existing approaches or method to solve this problem

The methods taken to solve this problem are :

Dashboard creation

Data sets for predictions

Graphs to represent data

cognos analytics to create graphs

2.2 Proposed solution

What is the method or solution suggested by you?

The methods that are needed to overcome this problem firstly representing data set and identifying relationships among them and creating dashboards

This will give some ideas about how the IPL matches are going on and what are the teams winning the most and about teams losing the most also predicted by seasons and date

Solving through

IBM Cloud

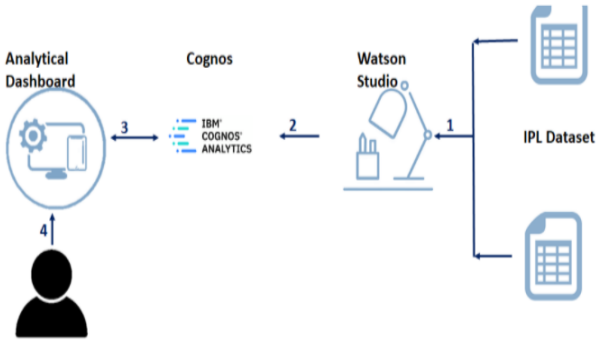
Cognos Analytics

Creating Dashboards

3 THEORITICAL ANALYSIS

3.1 Block diagram

Diagrammatic overview of the project.



3.2 Hardware / Software designing

Hardware and software requirements of the project

The software required for the project are:

IBM cloud

IBM Watson studio

Cognos Analytics

4.EXPERIMENTAL INVESTIGATIONS

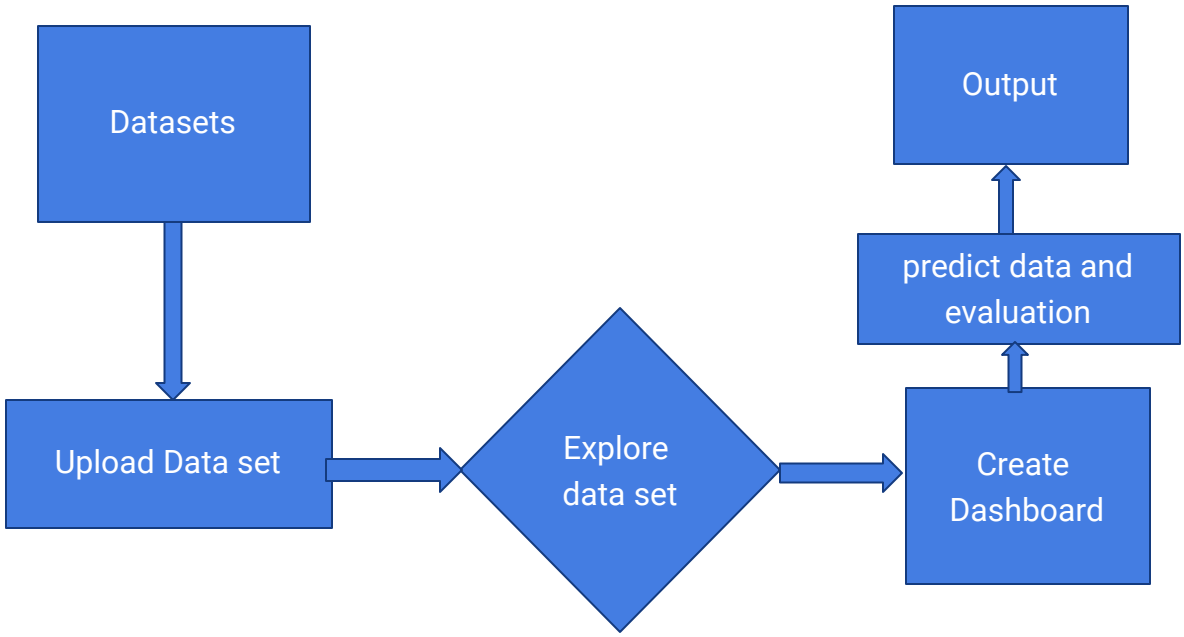
Analyzing the data through graphs

Creating different graphs with different attributes and relations among them

And placing them in to dashboard

5.FLOWCHART

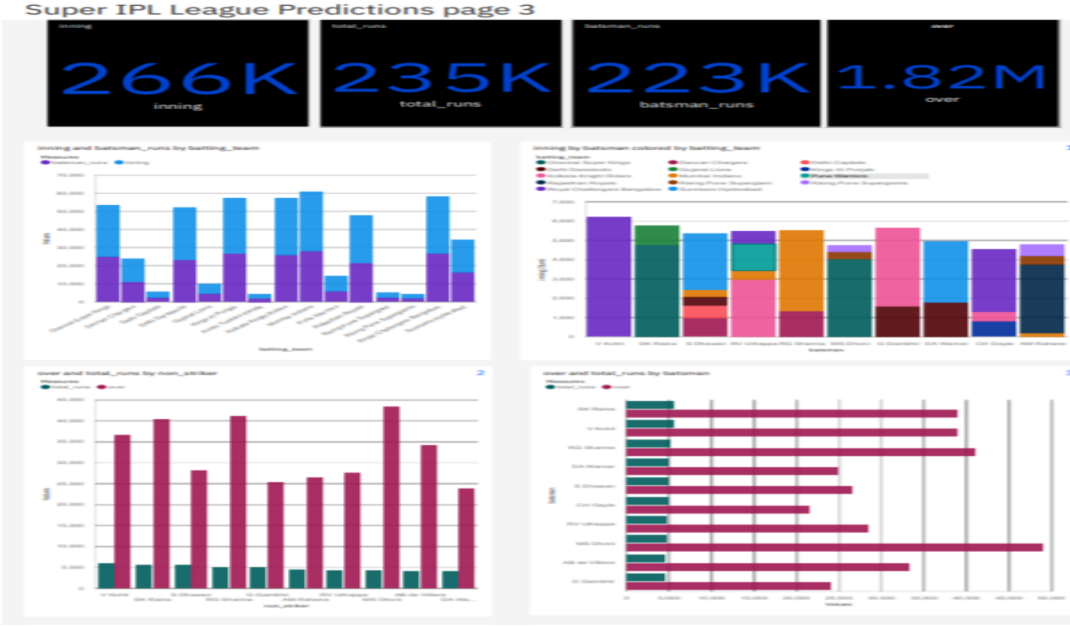
Diagram showing the control flow of the solution

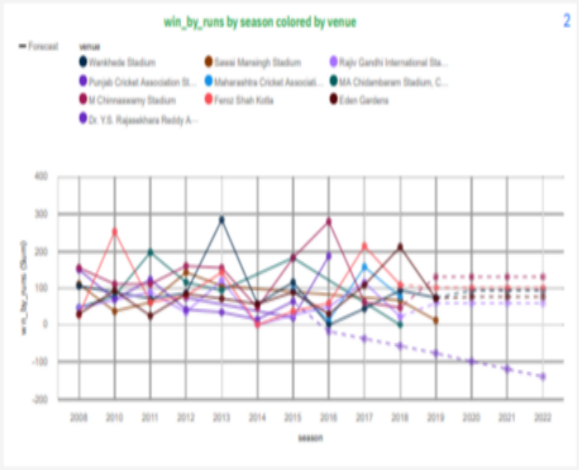


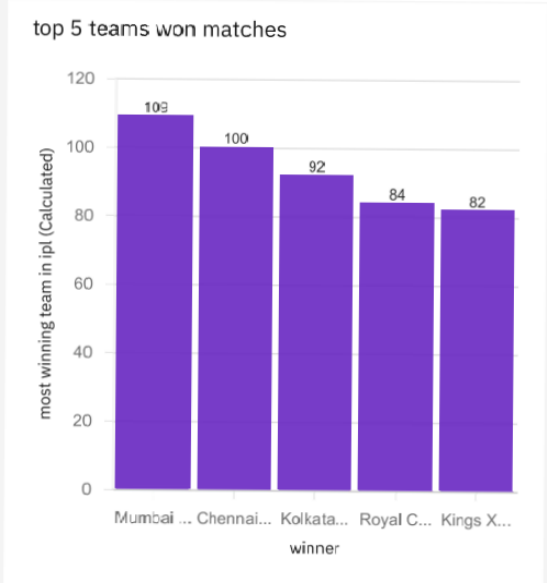
6.RESULT

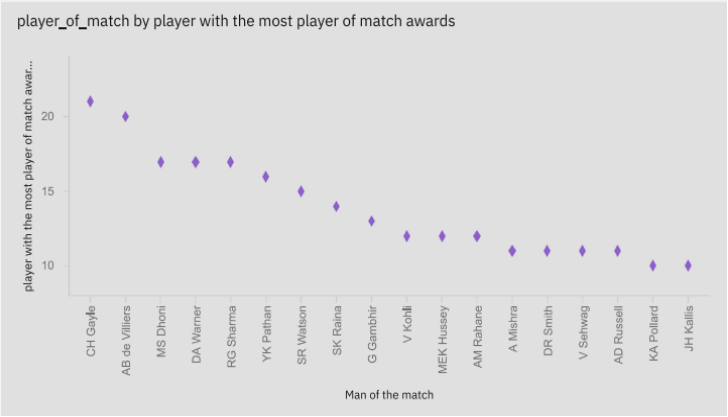
Final findings (Output) of the project along with screenshots.

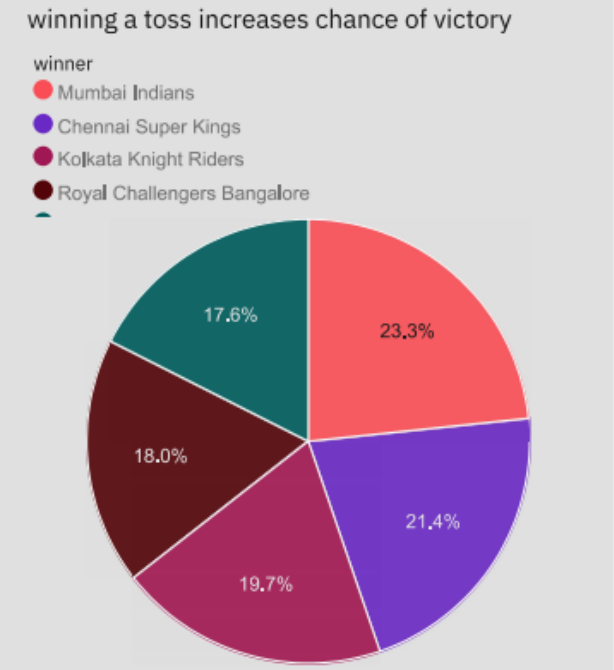
Super IPL League Predictions page 3

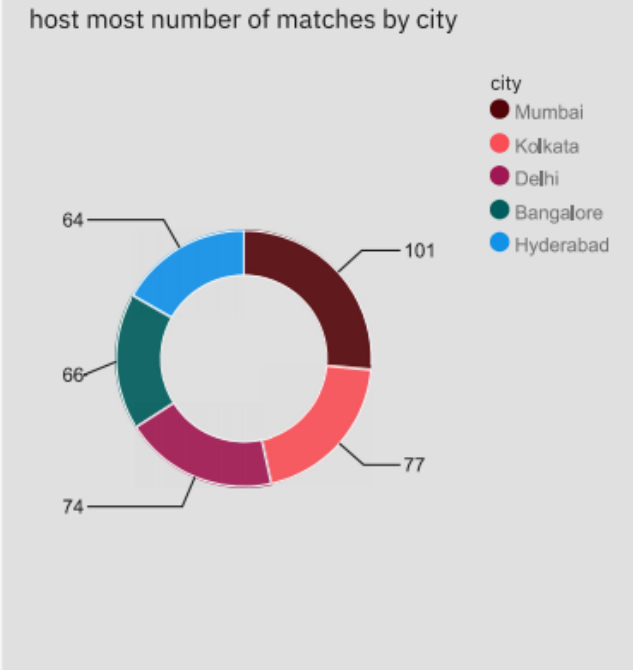




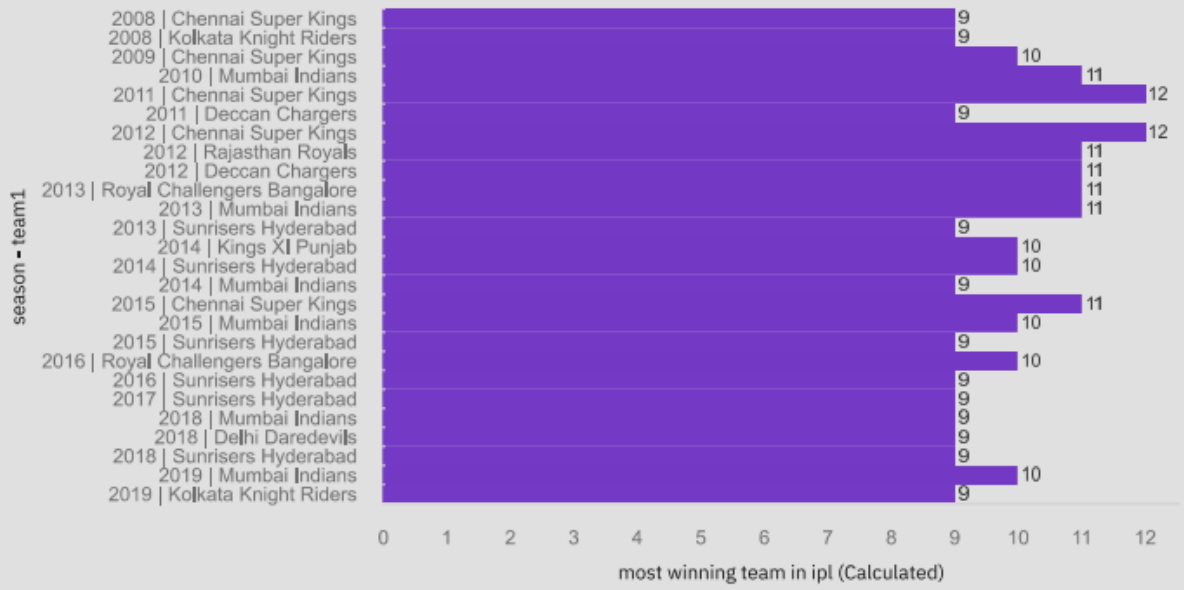

top 5 teams won matches
most winning team in ipl (Calculated)
120
100
80
60
40
20
0
109
100
92
84
82
Mumbai ...
Chennai...
Kolkata...
Royal C...
Kings X...
winner


player_of_match by player with the most player of match awards
player with the most player of match awar...
20
15
10
CH Gayle
AB de Villiers
MS Dhoni
DA Warner
RG Sharma
YK Pathan
SR Watson
SK Raina
G Gambhir
V Kohli
MEK Hussey
AM Rahane
A Mishra
DR Smith
V Sehwag
AD Russell
KA Pollard
JH Kallis
Man of the match

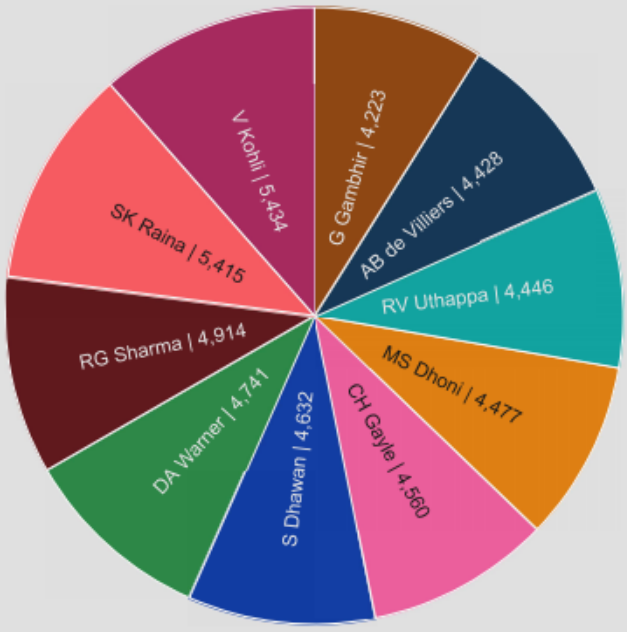

winning a toss increases chance of victory
winner
Mumbai Indians
Chennai Super Kings
Kolkata Knight Riders
Royal Challengers Bangalore
17.6%
23.3%
18.0%
21.4%
19.7%


host most number of matches by city
city
Mumbai
Kolkata
Delhi
Bangalore
Hyderabad
64
101
66
77
74

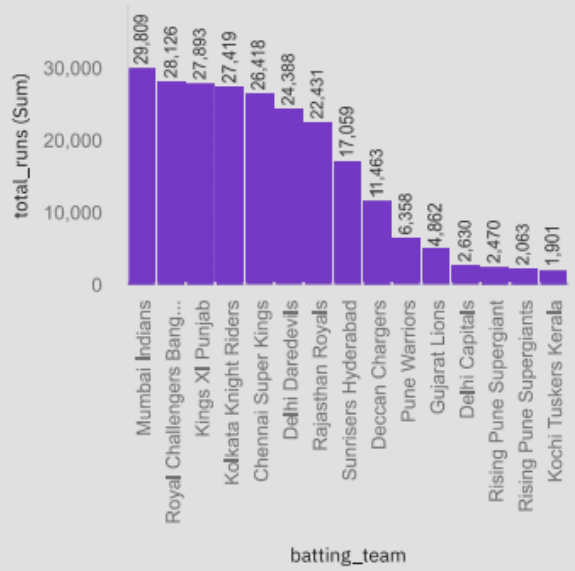
most winning team in ipl by season and team1



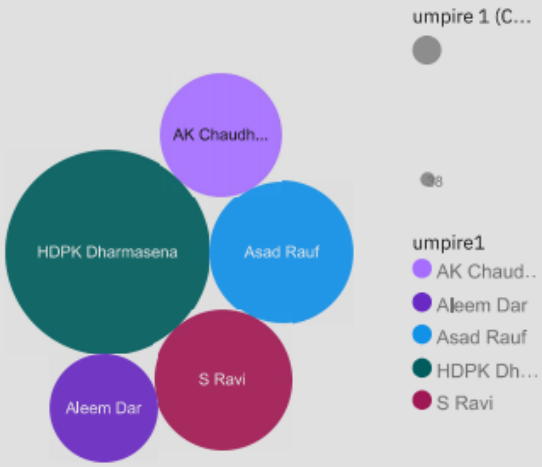
Top 10 players with most runs



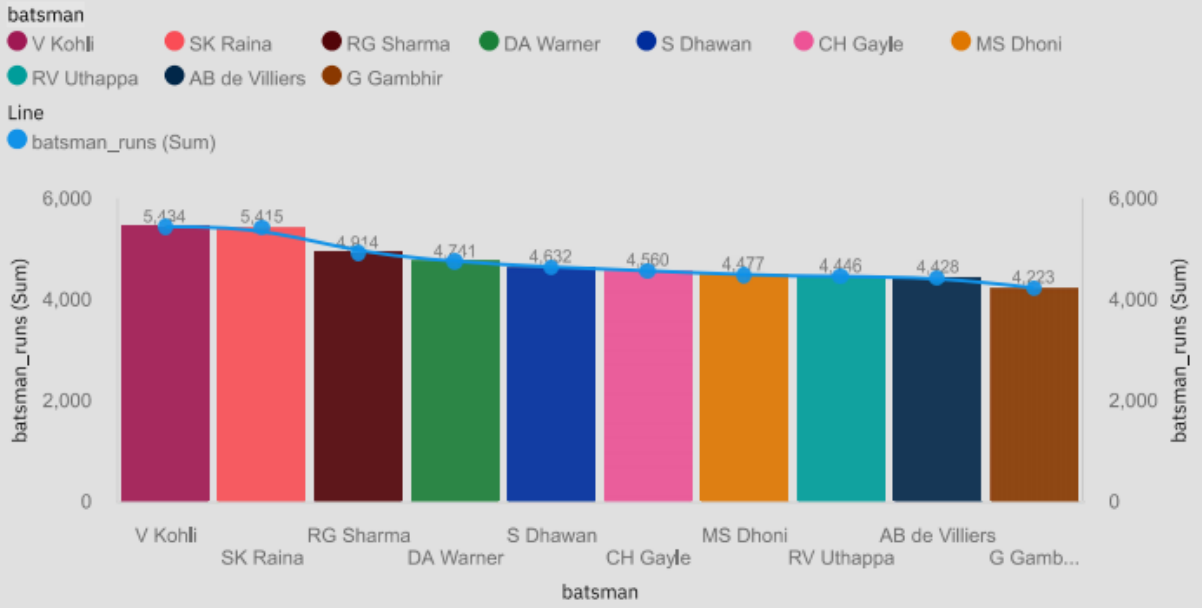
total_runs by batting_team



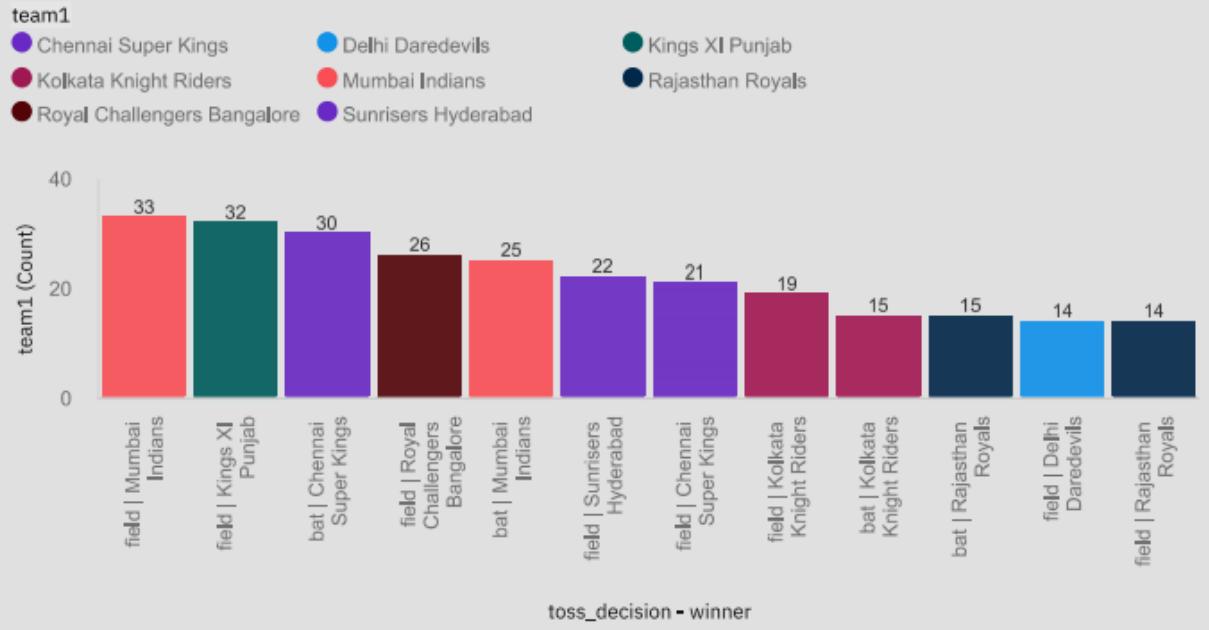
the on-field umpire 1 with maximum number of matches



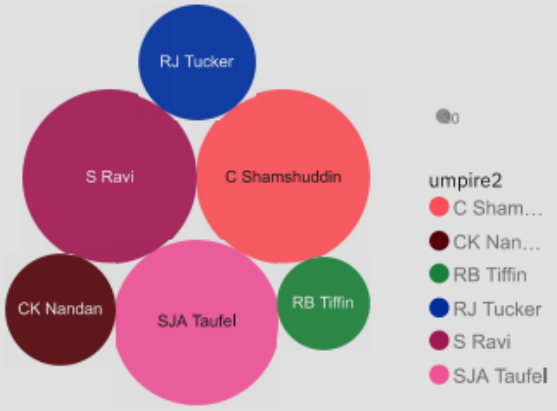
batsman and batsman_runs for batsman_runs colored by batsman



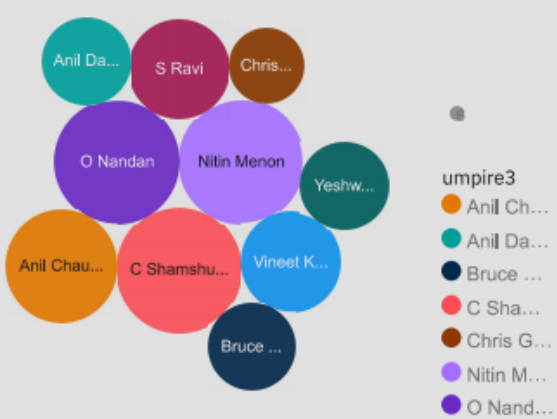
team1 by toss_decision and winner colored by team1



the on-field umpire 2 with maximum number of matches



the on-field umpire 3 with maximum number of matches



Super IPL League Predictions page 1

win_by_runs

10K

win_by_runs

win_by_wickets

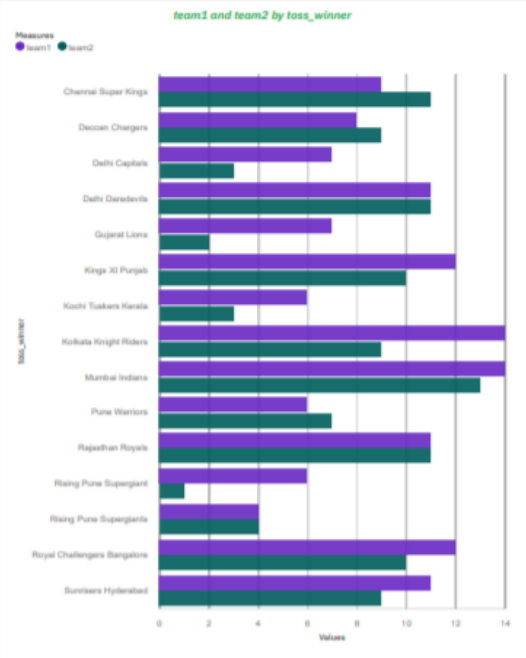
2.53K

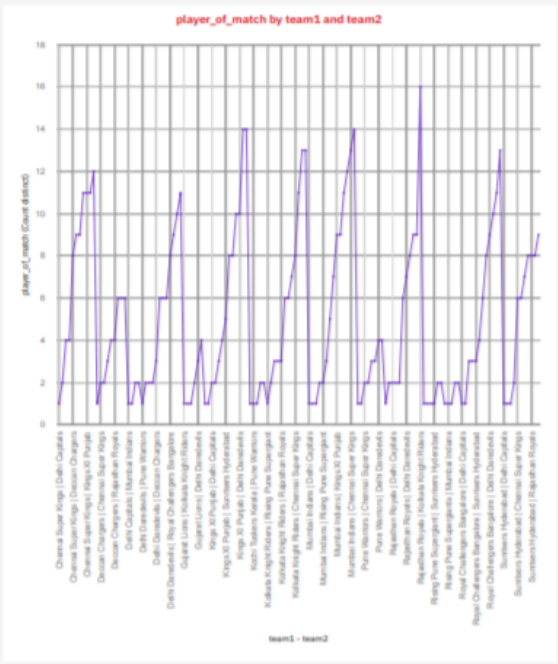
win_by_wickets

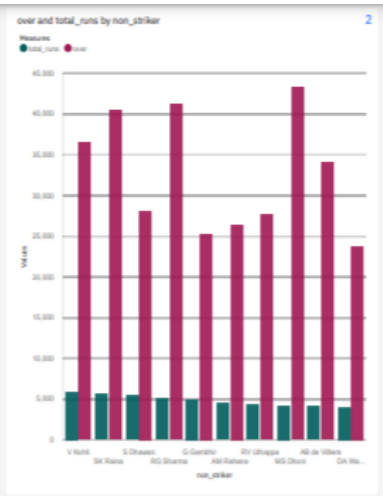
dl_applied

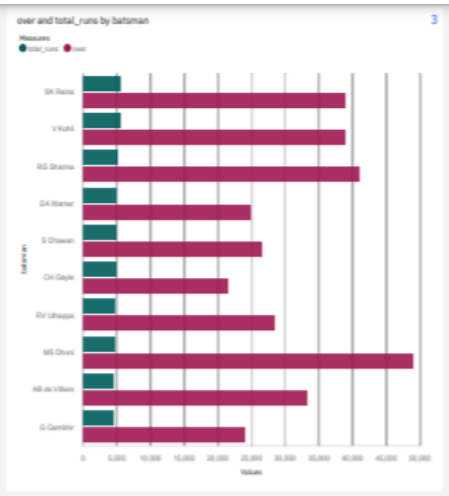
19

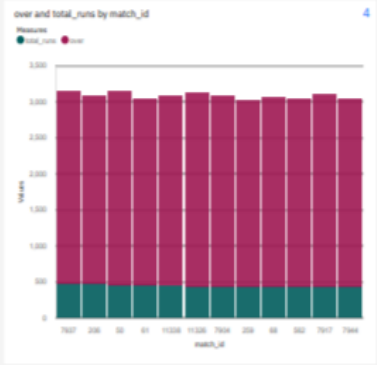
dl_applied

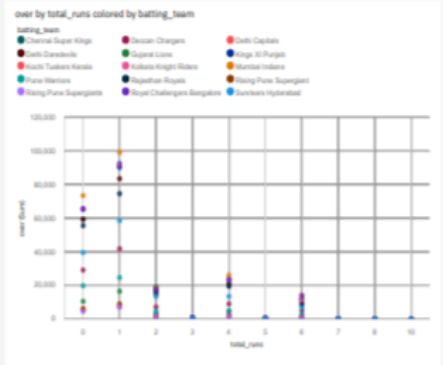


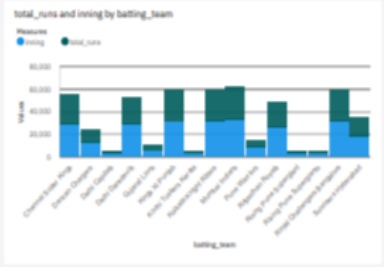


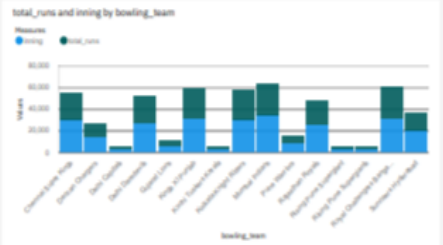

over and total_runs by non_striker
2
Measures
total_runs
over
Values
non_striker
V Kohli
S Dhawan
G Gambhir
RV Uthappa
AB de Villiers
SK Raina
RG Sharma
Abd Rahane
MS Dhoni
DA Wa...

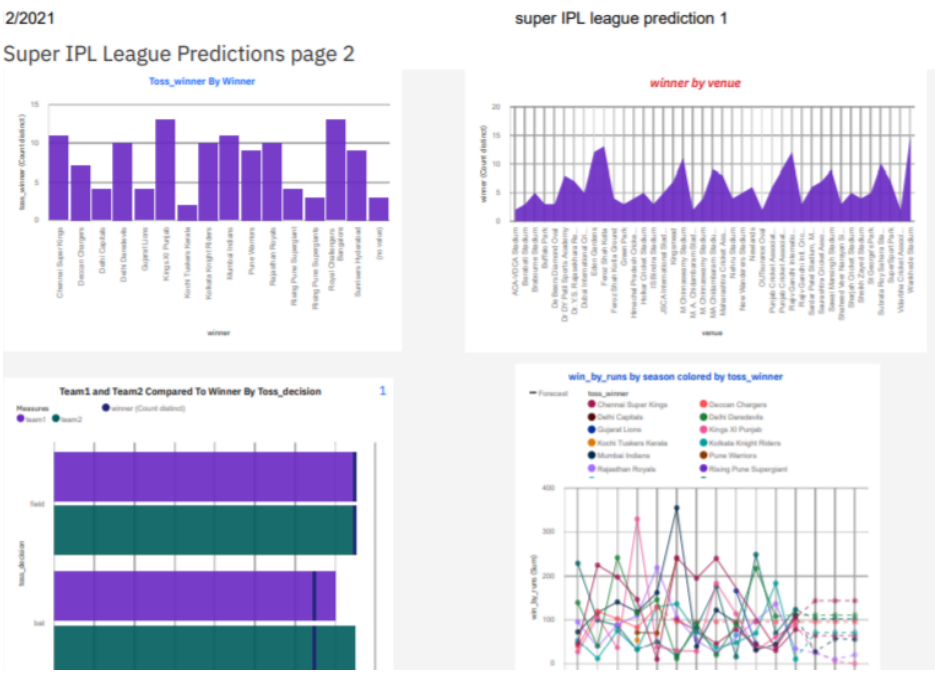

over and total_runs by batsman
3
Measures
total_runs
over
batsman
SK Raina
V Kohli
RG Sharma
DA Warner
S Dhawan
CH Gayle
RV Uthappa
MS Dhoni
AB de Villiers
G Gambhir
Values


over and total_runs by match_id
4
Measures
total_runs
over
Values
match_id


over by total_runs colored by batting_team
batting_team
Chennai Super Kings
Deccan Chargers
Delhi Capitals
Delhi Daredevils
Gujarat Lions
Kings XI Punjab
Kochi Tuskers Kerala
Kolkata Knight Riders
Mumbai Indians
Pune Warriors
Rajasthan Royals
Rising Pune Supergiant
Rising Pune Supergiants
Royal Challengers Bangalore
Sunrisers Hyderabad
over (bins)
total_runs


total_runs and inning by batting_team
Measures
inning
total_runs
Values
batting_team


total_runs and inning by bowling_team
Measures
inning
total_runs
Values
bowling_team



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

7.ADVANTAGES & DISADVANTAGES

List of advantages and disadvantages of the proposed solution

ADVANTAGES

Three advantages of forecasting

- We'll gain valuable insight. Forecasting gets us into the habit of looking at past and real-time data to predict future demand. ...

- We'll learn from past mistakes.We don't start from scratch after each forecast.
- It can decrease costs.

Three disadvantages of forecasting

- Forecasts are never 100% accurate. Let's face it: it's hard to predict the future. ...
- It can be time-consuming and resource-intensive. Forecasting involves a lot of data gathering, data organizing, and coordination. ...
- It can also be costly.

8.APPLICATIONS

This solution is applicable for data which is in a bulk amount and to pick a best and appropriate one

This solution is used to predict the data by taking previous data into account

So a dataset is most important and key for every prediction of data

9.CONCLUSION

- The entire process is carried out using cognos analytics
- Upload dataset
- Visualize the given dataset
- Identify the most appropriate one and make a prediction
- Evaluate maps and graphs according to the solutions expected
- Forecast data
- Identify the future outcomes of data

10.FUTURE SCOPE

- Predictive analytics can help organizations forecast future outcomes based on historical data and analytics techniques such as machine learning.
- With the help of sophisticated predictive analytics tools and models, any

organization can now use past and current data to reliably

- Forecast trends and behaviors milliseconds, days, or years into the future.

11. BIBILOGRAPHY

By using the guidance of Bootcamp classes conducted by smartinternz

APPENDIX

The objective of this solution is to create a dashboard that visualizes the following capabilities and also forecasts the future results

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