

# **Introduction**

## **Overview:**

The Indian Premier League (IPL) is a professional T20 cricket tournament introduced by the Board of Control of Cricket in India (BCCI), in 2008. It is the most watched Twenty20 tournament. There are currently 8 teams which play against each other to win the IPL trophy. Players from all around the world join the teams.

It has attracted viewers from all around the globe. It has over 200 million Indian viewers, 10 million international viewers and four million live spectators. In 2010, IPL becomes the first sporting event ever to be broadcast live on Youtube.

The purpose of IPL is to promote cricket in India and thereby nurturing young and talented players.

The project is "Super Predictor Of Indian Premier League (IPL)" in which a Dashboard is made using IBM Cognos Analytics, which can be useful making predictions by analysing the past results and making visualisation. It uses a dataset which has to be uploaded, after uploading dataset is analysed for relation between different columns and at the end a visualisation dashboard is made which can also be used to forecast results. This forecast result can be used for various purposes.

## **Purpose:**

This visualisation will help teams in making their strategy for improving their team's performance.

This visualisation dashboard can help different teams (not only for cricket but for other sports) making their strategy for the match by looking at the previous result report.

The team selectors can choose which player to select in the team by looking at his/her performance graph.

This can also be used as an App for prediction which will help people win in Fantasy sports like Dream 11.

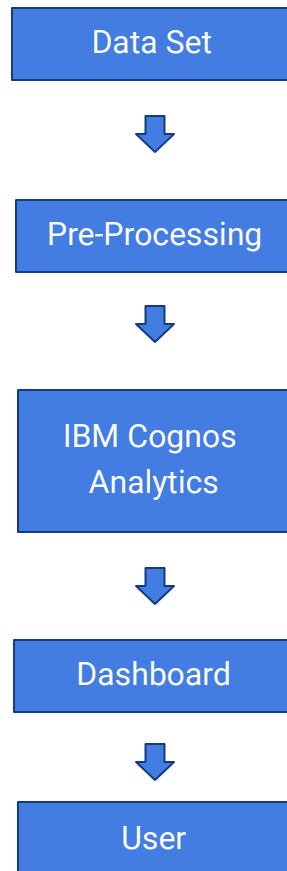
# Literature Survey

As the worldwide Market for Cricket is **valued at 320.3 million USD in 2020** is expected to reach **363.5 million USD by the end of 2026** and right now there are very less number of prediction apps and these apps are not that famous or accurate. As the popularity of sports in India is increasing so this app or this dashboard can help numerous people, whether they are the viewer or player.

An app or website can be made using this dashboard which can be used for predictions. Different people can take access to this and see the performance of their beloved player or for people playing in fantasy sports they can see players past performance and select players.

# Theoretical Analysis

## Block diagram



### **Hardware requirements:**

<b>RAM</b>	<b>512 MB</b>
<b>Disk Space</b>	<b>500 MB</b>
<b>Processor</b>	<b>1.0GHz</b>

### **Software requirements:**

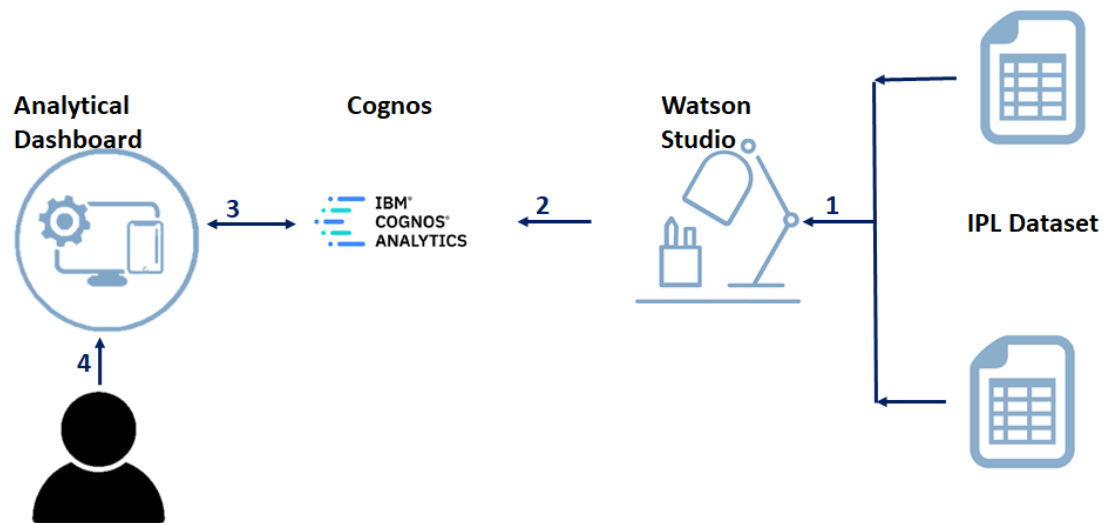
<b>Operating System</b>	<b>Windows or any equivalent OS</b>
<b>Web Browser</b>	<b>Google Chrome or any compatible browser</b>

## **Experimental Investigation**

In making of this project, the first thing to be learned is how to use IBM services. IBM cognos analytics makes everything effortless whether it is finding relations between columns or making visualisation and after making the dashboard, it can be uploaded on the IBM cloud.

While exploring the data set of IPL matches there are a lot of things I learned about IPL teams. I came to know that Mumbai Indian is the team who has won the most number of matches followed by Chennai Super Kings, Delhi Capital has lost the most number of matches, Toss Winning can increase the chances of victory, Mumbai has hosted the most number of matches, etc.

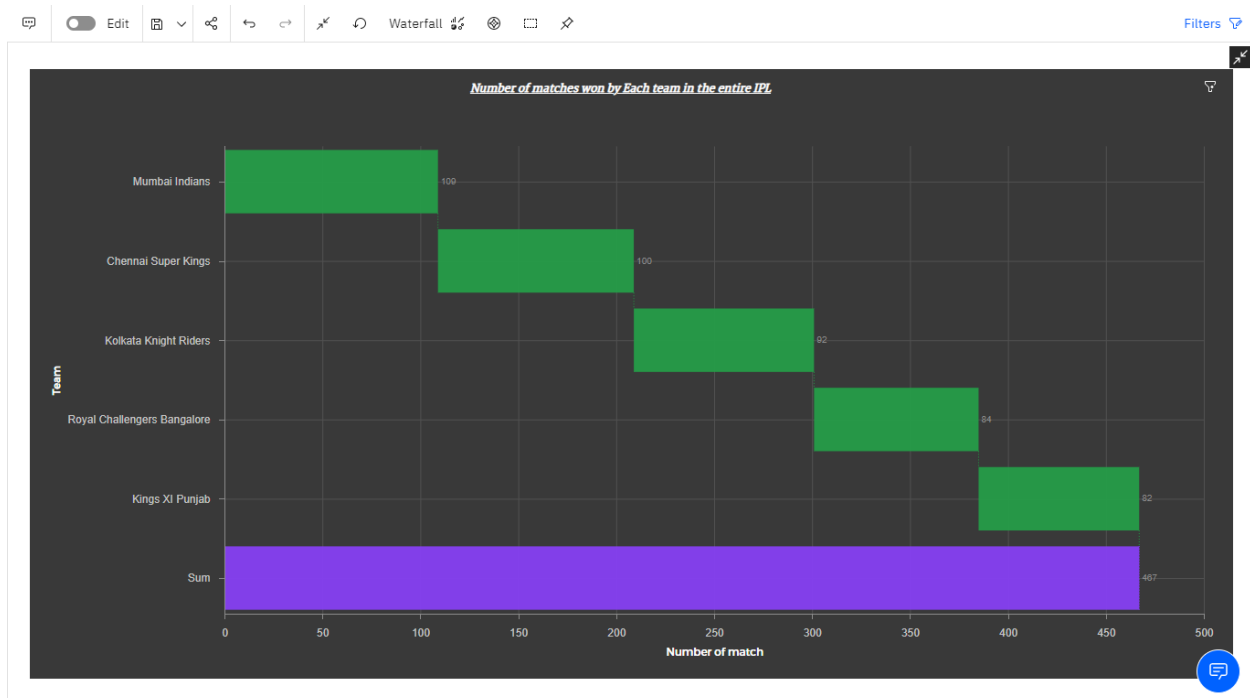
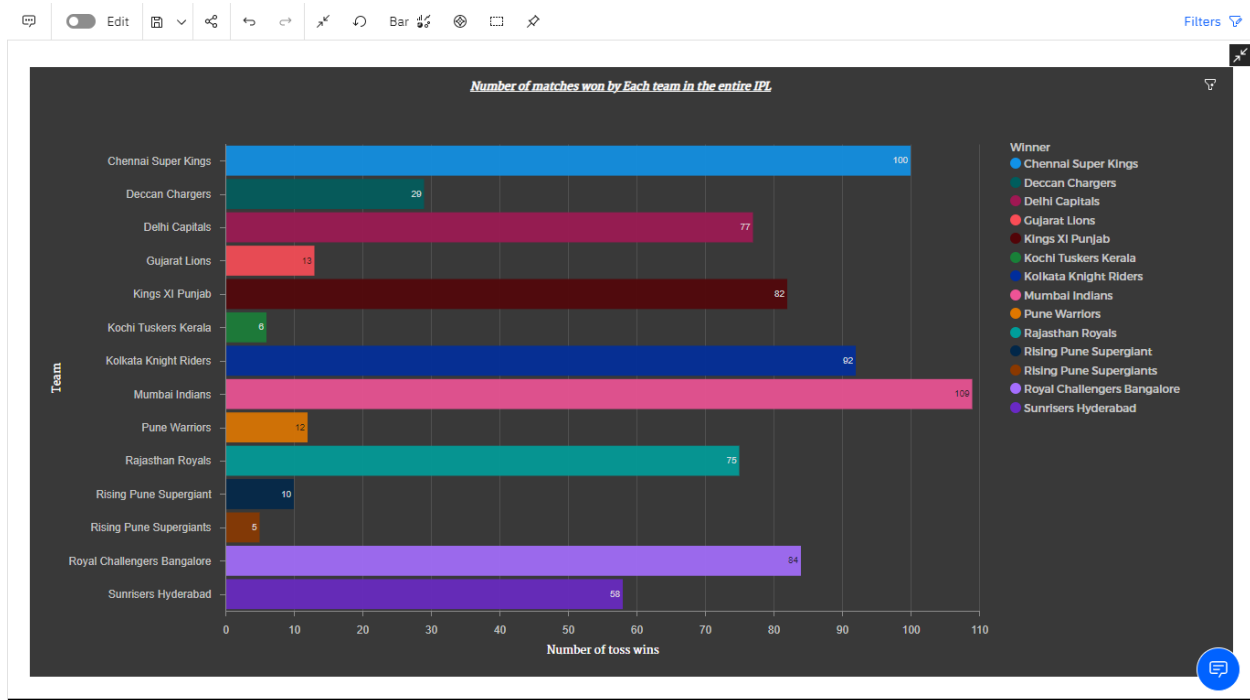
# Flow Chart



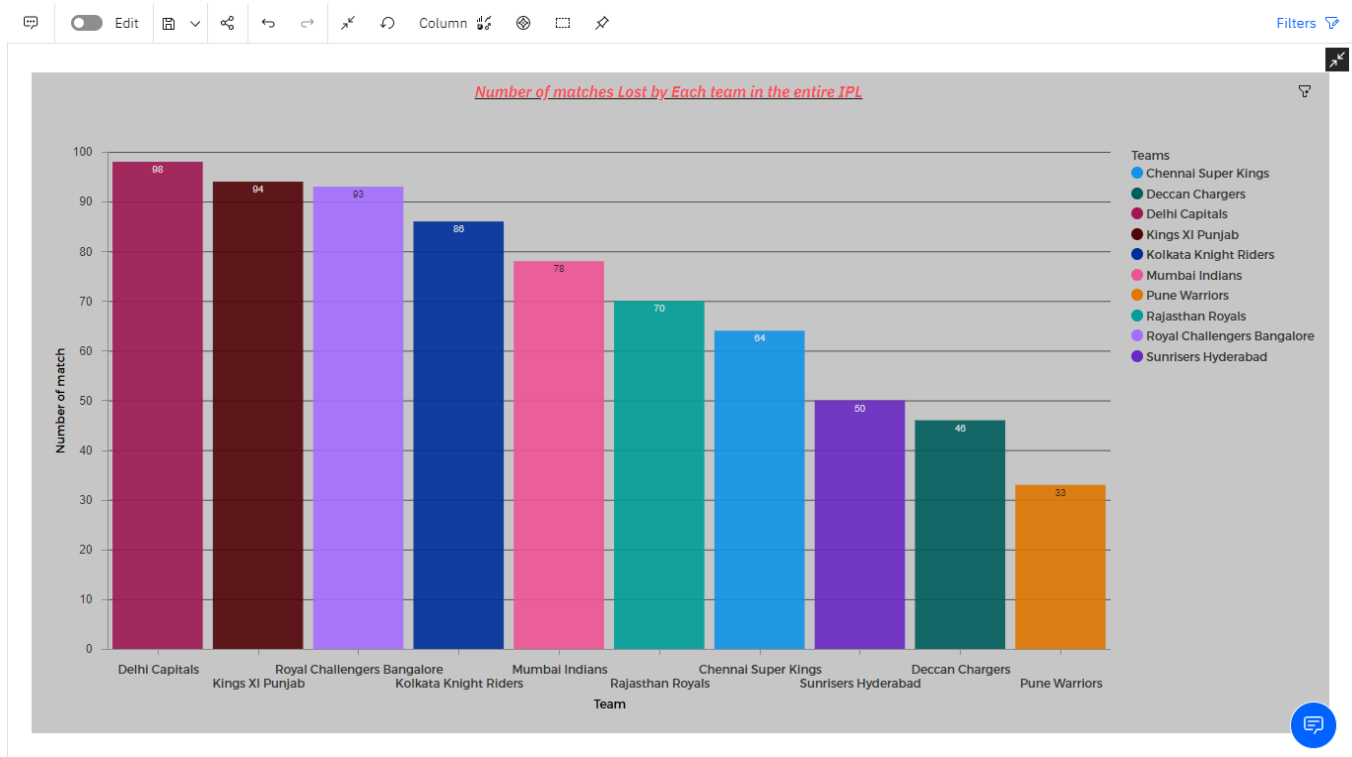
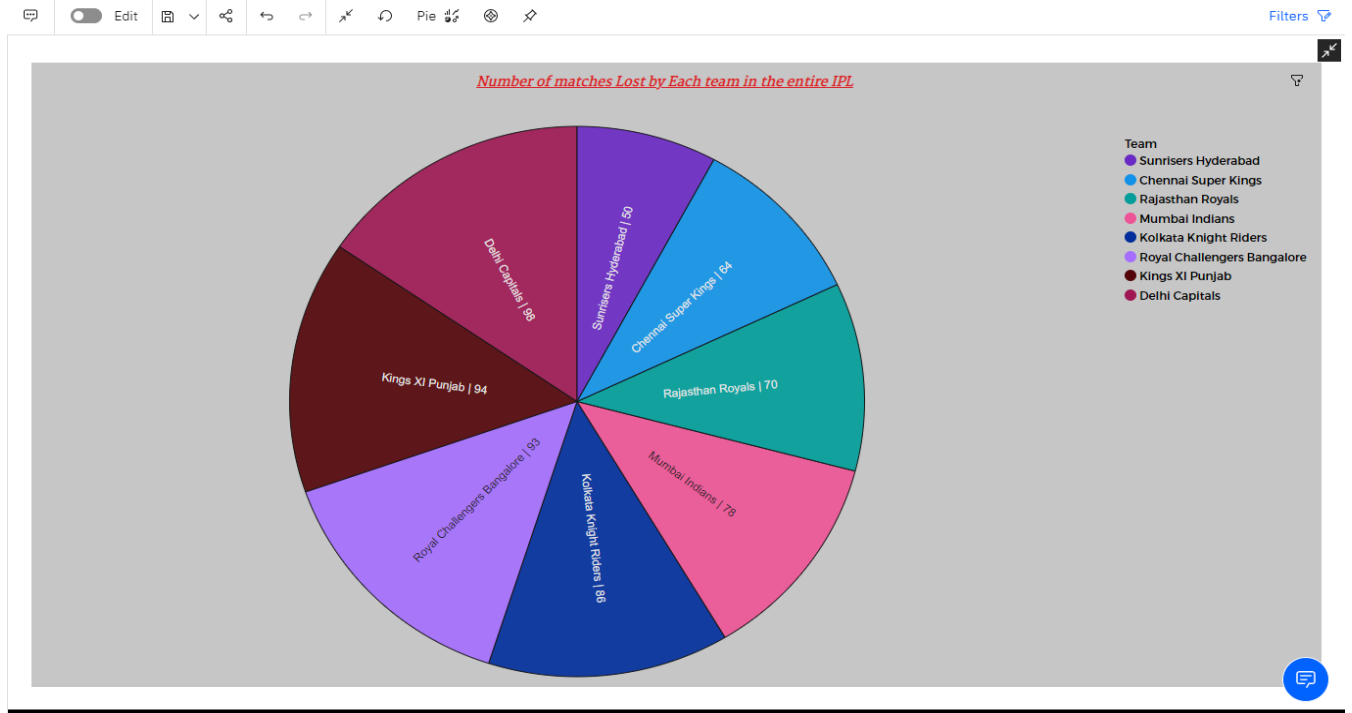
According to this flow chart, first the dataset is uploaded in the Watson Studio, then IBM cognos analytics is used for making the analytical dashboard. Then this dashboard is shown to the user.

# Result

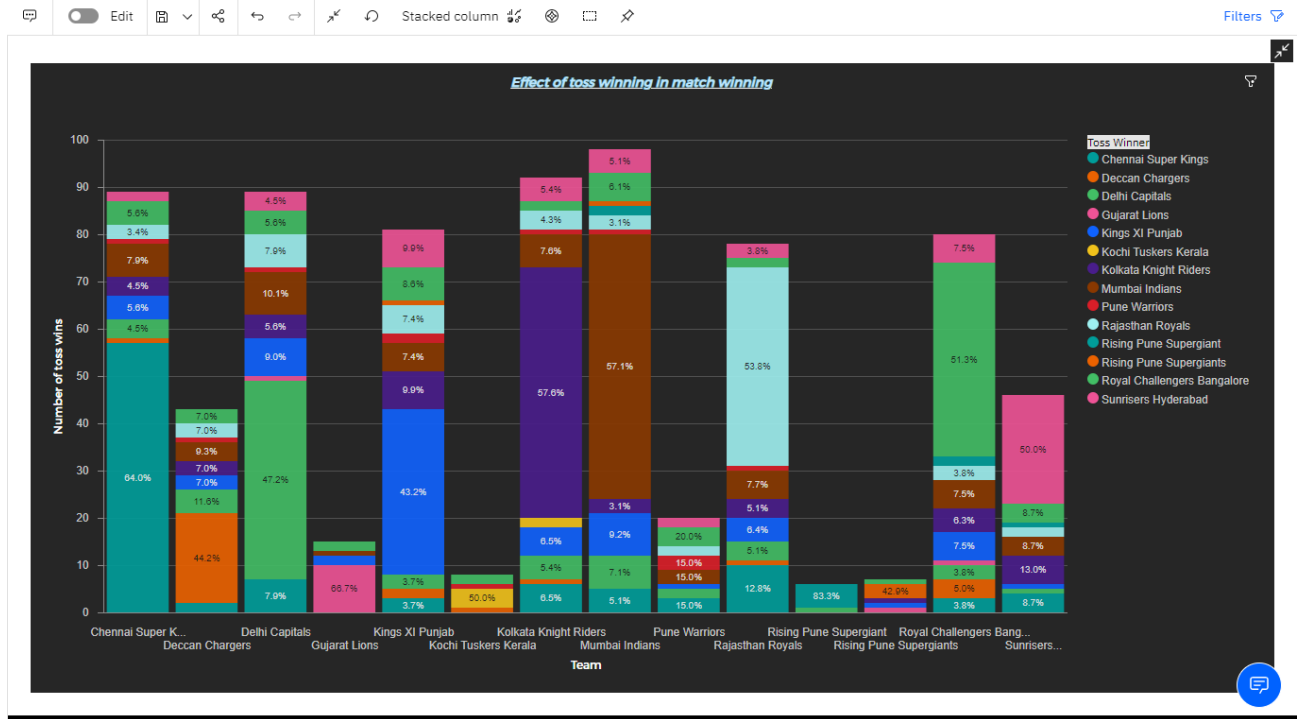
- To find the team that won the most number of matches in the entire IPL.



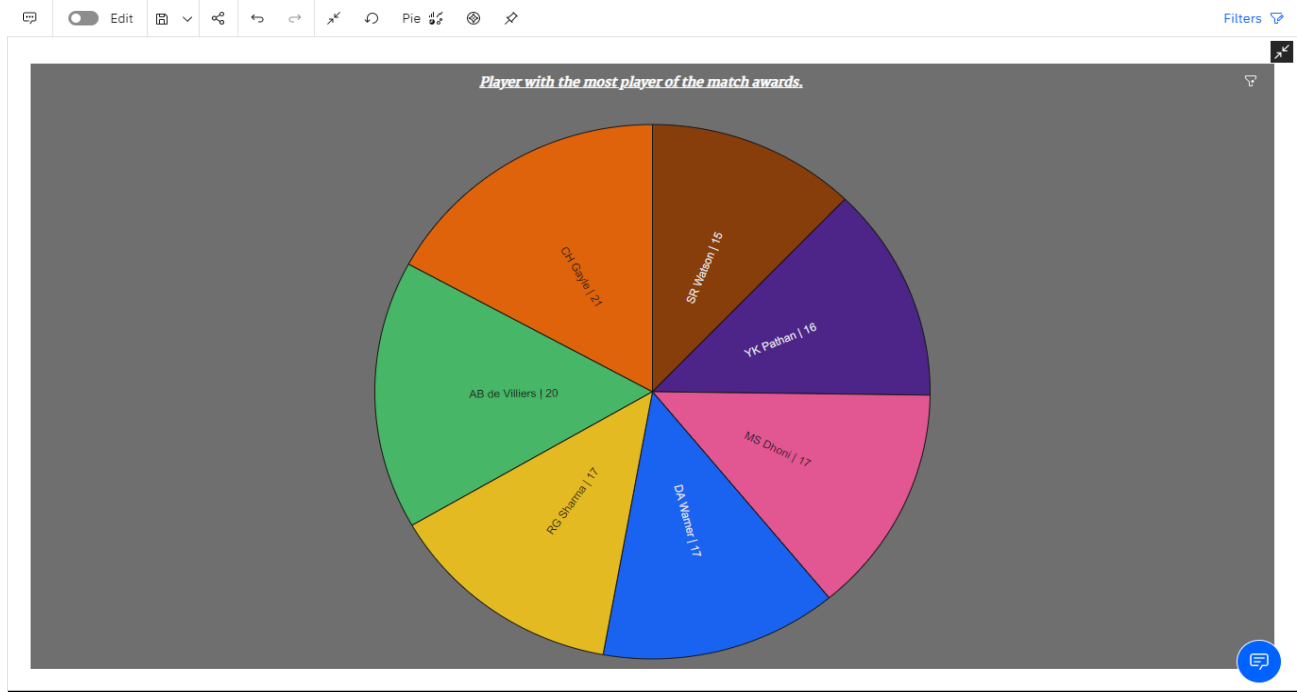
- To find the team that lost the most number of matches in the entire IPL.



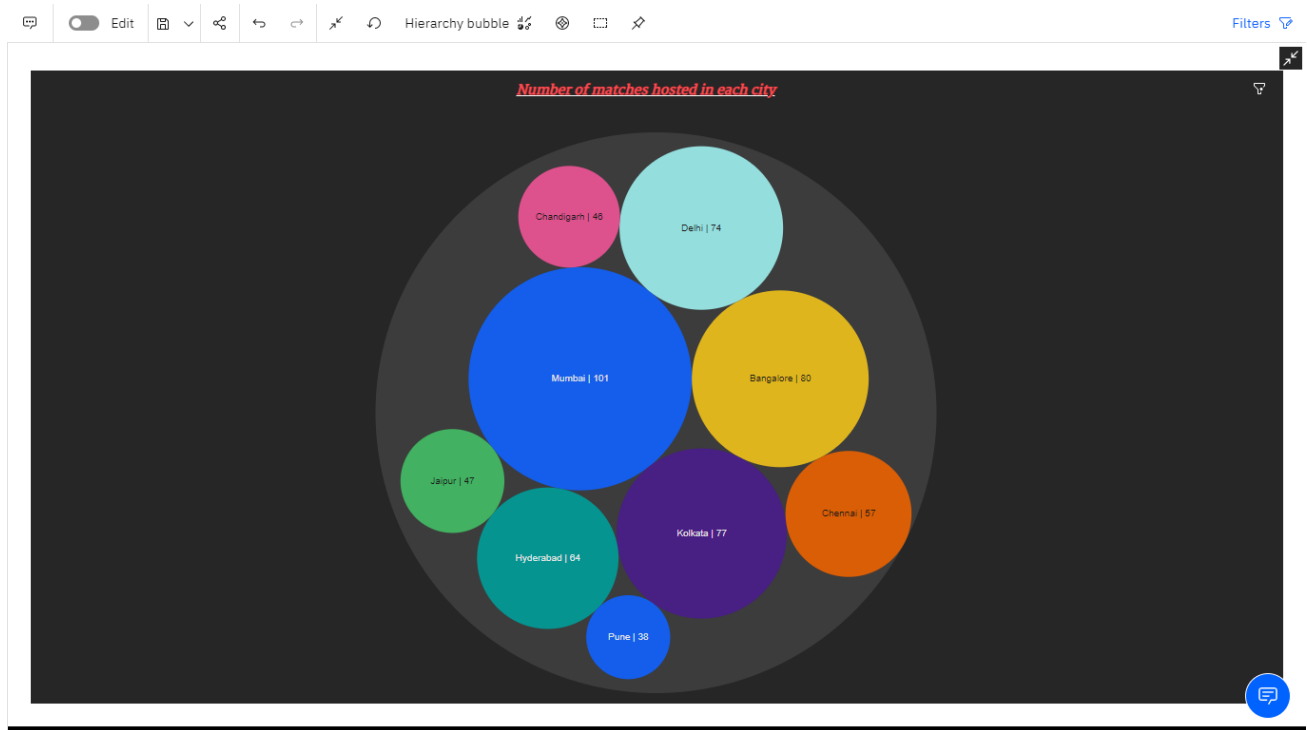
## ● Does winning a toss increase the chances of victory



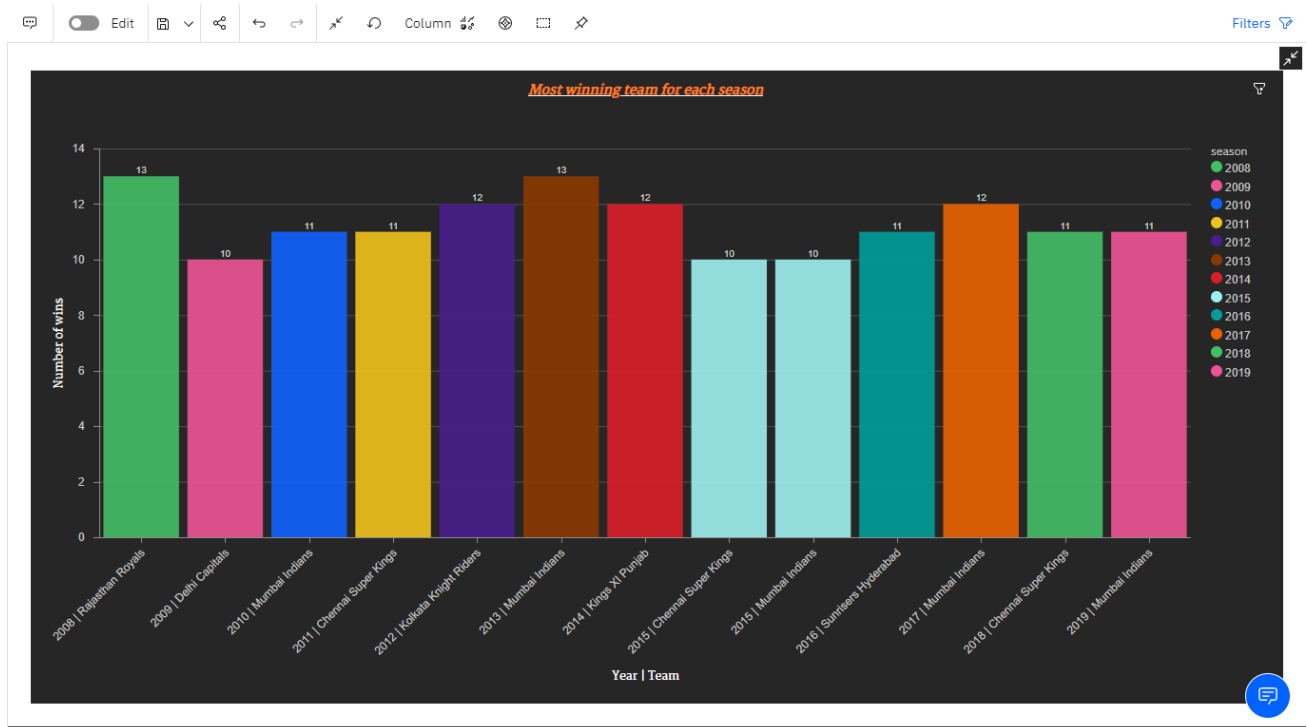
## ● To find the player with the most player of the match awards.



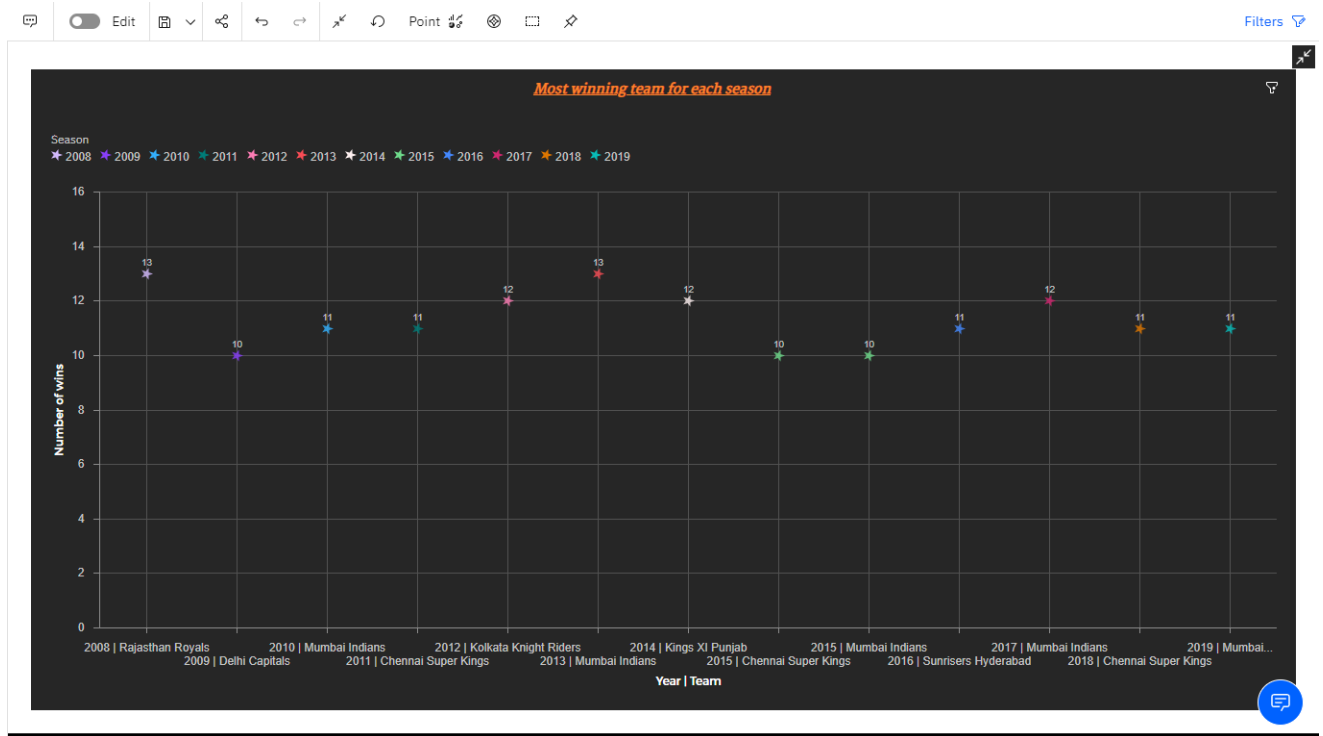
- To find the city that hosted the maximum number of IPL matches.



- To find the most winning team for each season.





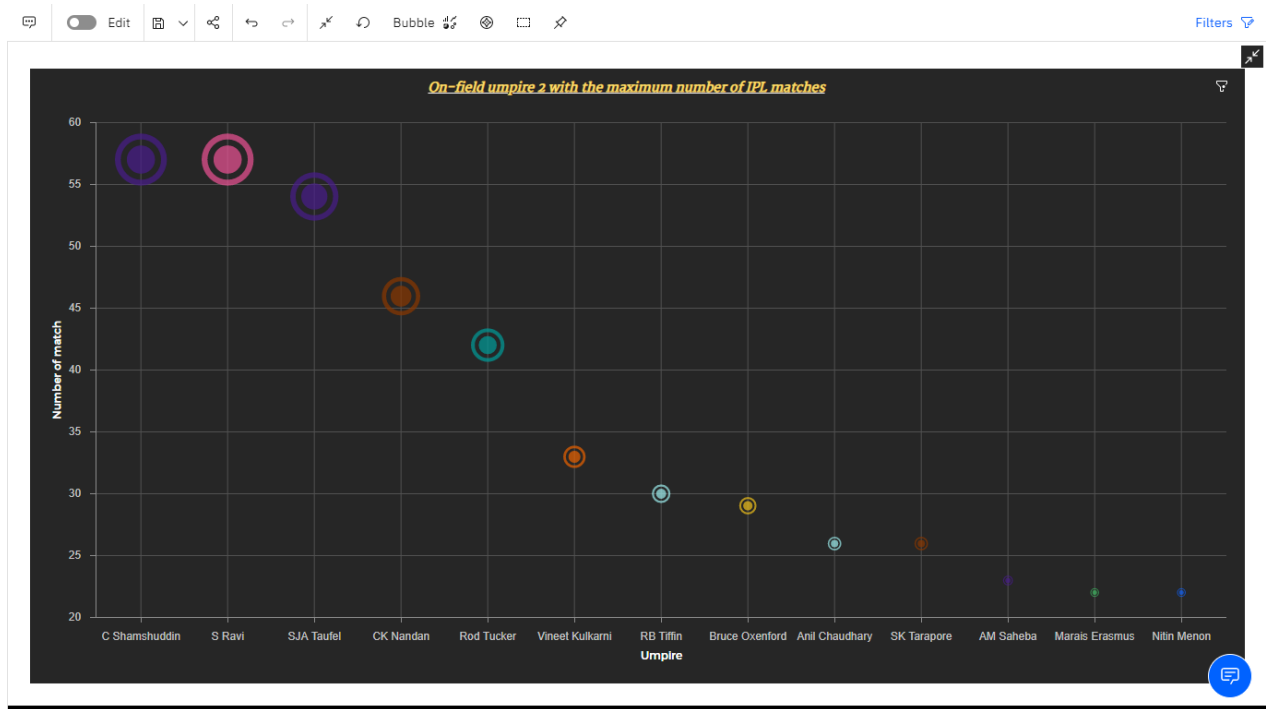


- To find the on-field umpire with the maximum number of IPL matches.

i> Field umpire 1 :-

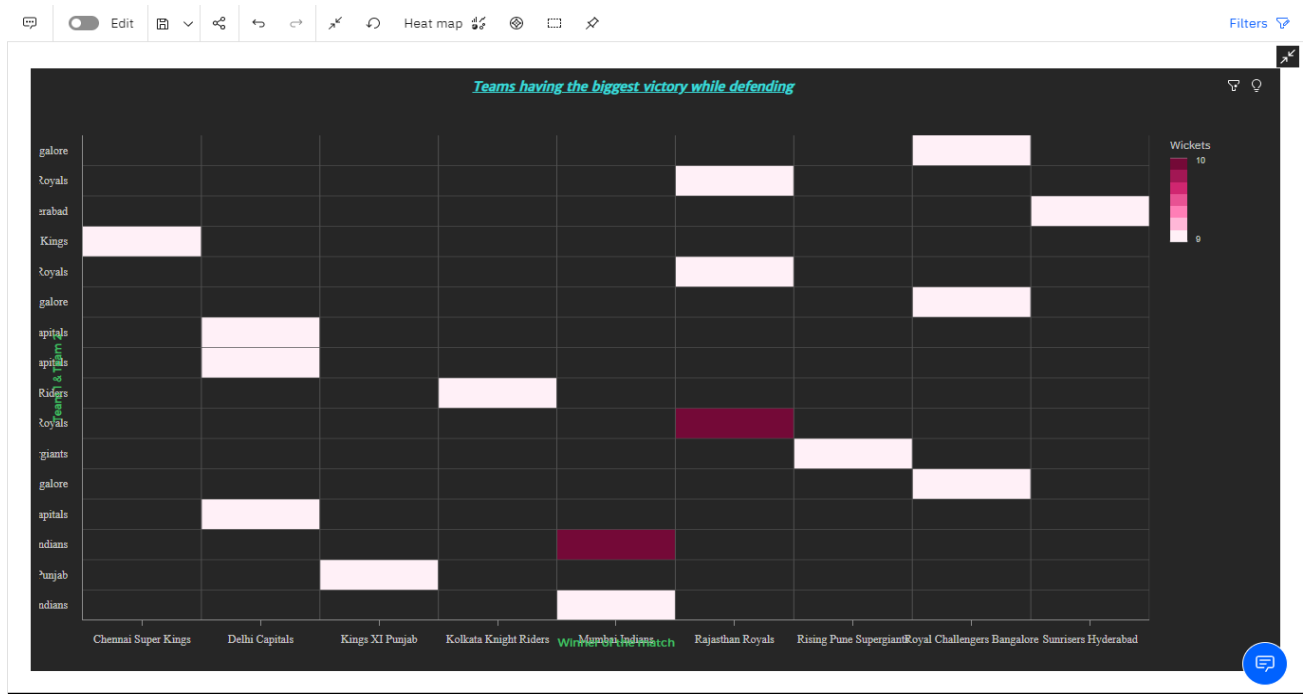


ii> Field umpire 2 :-

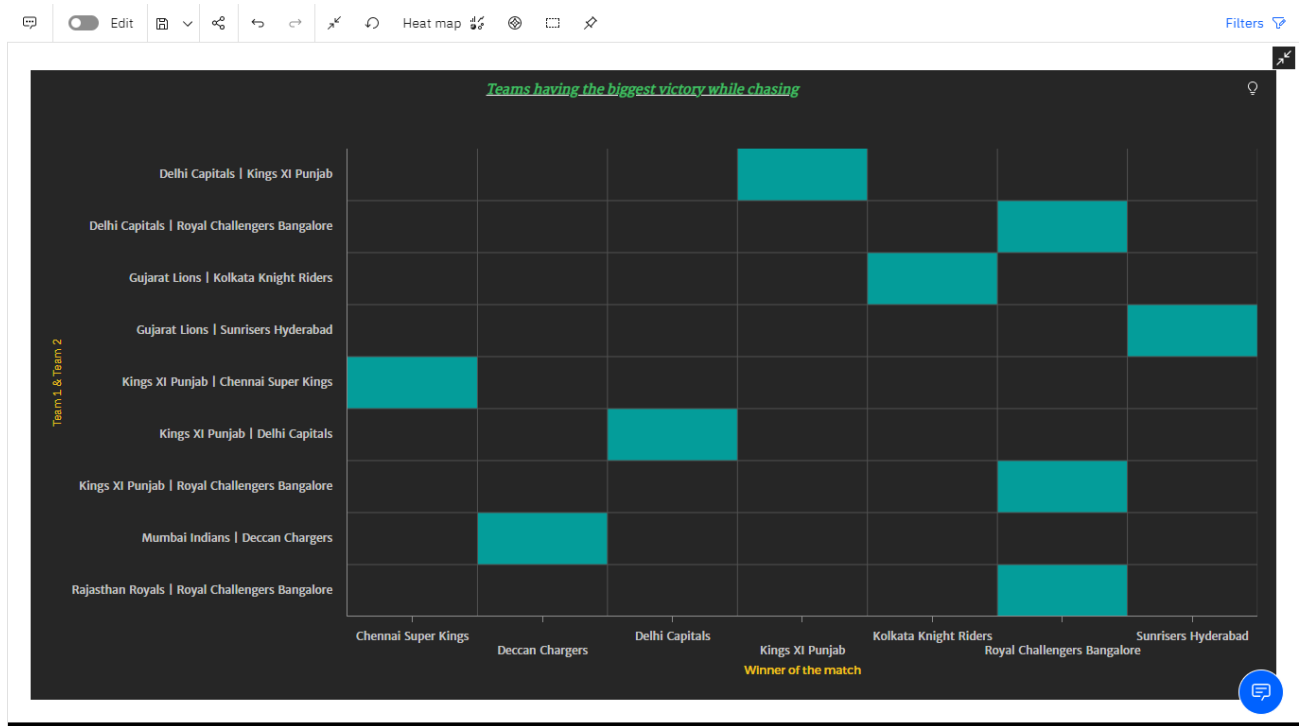


- To find the biggest victories in IPL :

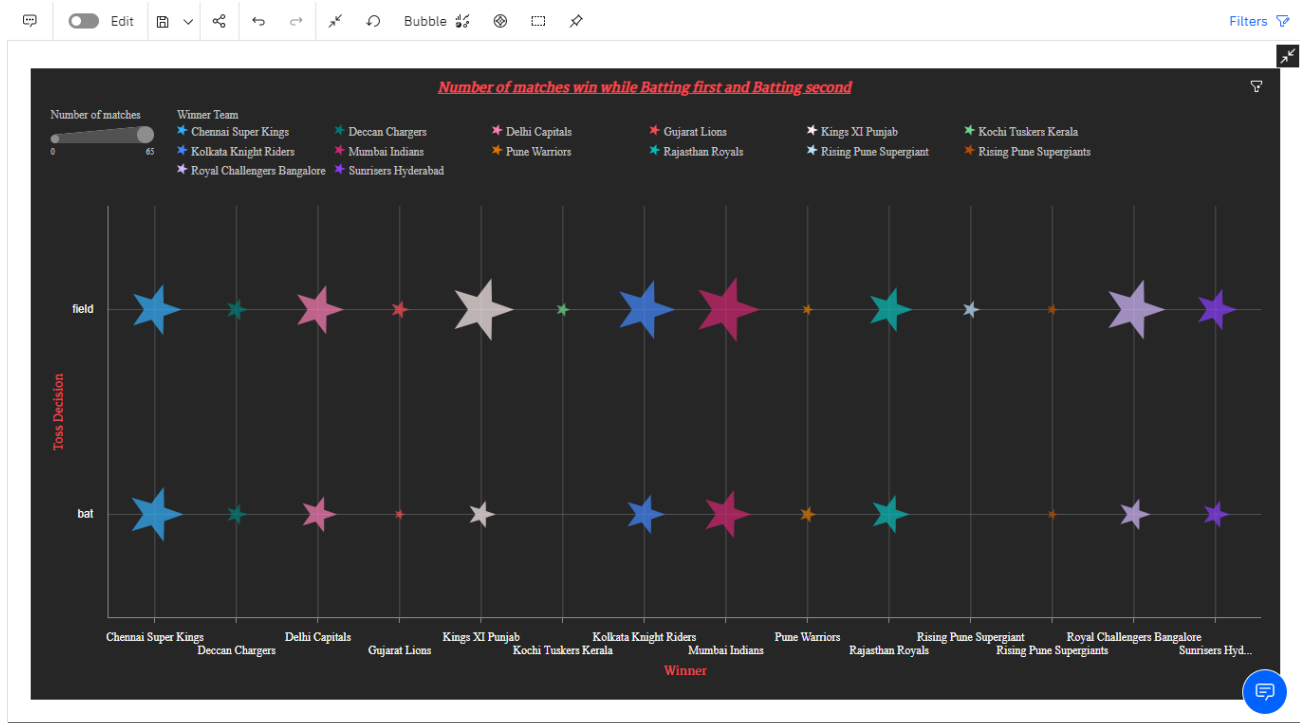
i> While Defending :-



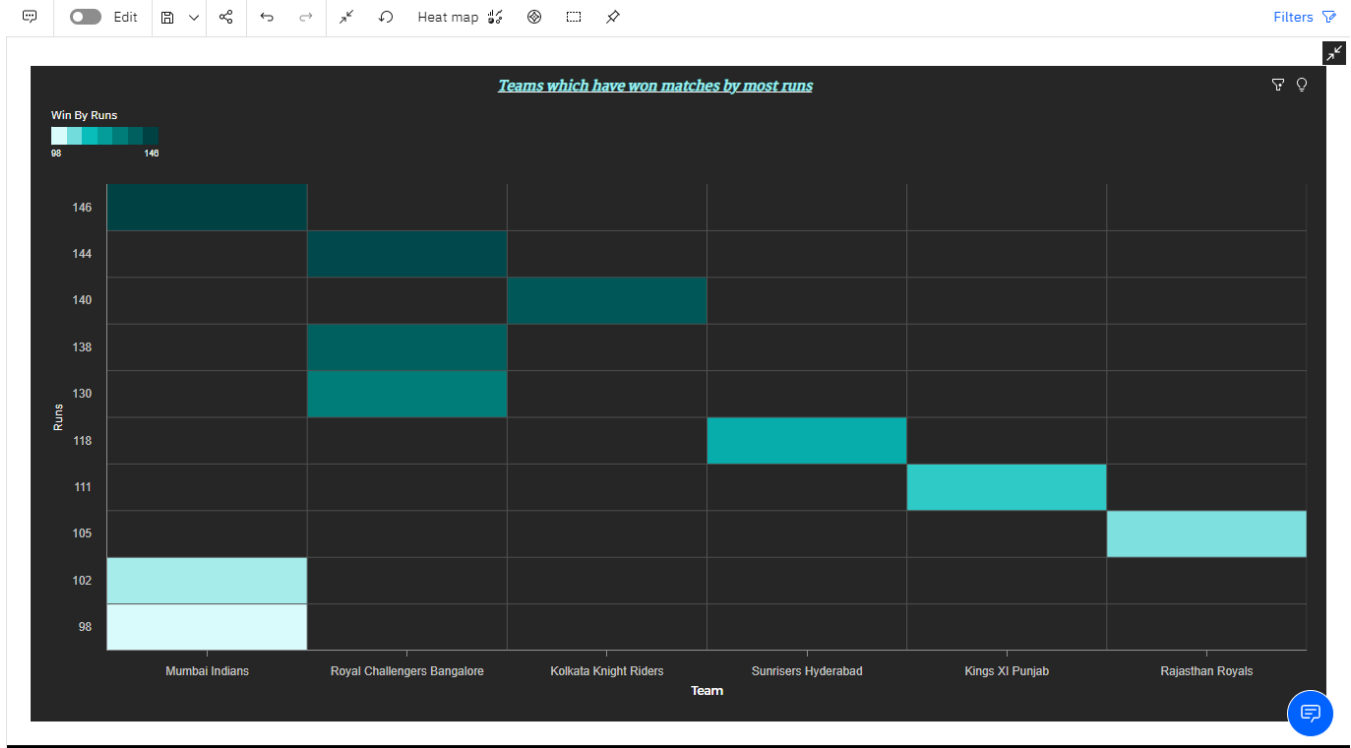
## ii> While Chasing :-



## • Which team won the most matches while batting first and batting second



- **List of teams which have won matches by most runs cumulatively**



## Advantages

As the scope of IPL is increasing following can be the advantages:

- ◇ This predictor dashboard can help new players to get chance as team selectors can view the performance graph of the player.
- ◇ This dashboard can be used as an App or Website which further will help to make money.
- ◇ This will also help team captain to make their strategy by looking at their teams and opponents performance graph.
- ◇ This dashboard can help team selectors select their players.
- ◇ This can also help people to choose their team in fantasy sports like Dream 11

## **Disadvantage**

As every good thing has some disadvantages, so has this Dashboard.

- ◇ This Dashboard or App can be used for illegal purposes like match fixing. The Fixer will see the player with the best performance and then fix the match. This will affect other teams as well.
- ◇ This App will be paid so some people will not be able to use it until they take paid subscription

## **Application**

This App or Dashboard can be used for prediction and visualisation of all the player's performance from different games (whether national or international) not just cricket. The usage of this App for multiple games will increase its popularity. When this App becomes popular then some brand advertisements can be done on the app. This will make some extra money.

This prediction App can also be used for whether forecasting.

## **Conclusion**

Cricket is the most popular sport in India. And this popularity is never going to end. So for all the cricket fans and players this prediction dashboard is beneficial for visualising performance graph.

This dashboard can be used as a Website or an App in which people can take subscription and see predictions. In the future this App can be used for any sport, not just cricket. This will increase the number of users and the App market.

## **Future Scope**

IPL is a never ending sport and so is the use of such prediction app. Now this app or dashboard only predicts the result based on the previous results but in the future some other things like weather condition and pitch condition can be taken into consideration for prediction. This will improve the accuracy. As the accuracy increases this will attract more customers to take subscription. Using this App for other sports will help people who love sports other than cricket.

## **Bibilography**

### **Link of the Kaggle data set:-**

<https://www.kaggle.com/nowke9/ipldata?select=matches.csv>

### **Link to the video demonstration of the project:-**

<https://drive.google.com/drive/folders/13hs2-GuOfUtRFIJH-kzmJVAB0oek80Bu?usp=sharing>

### **Youtube Link of the demonstration video of the project:-**

Part1 : <https://youtu.be/KL75jIP2fbM>

Part 2: [https://youtu.be/1GHex\\_J-fCI](https://youtu.be/1GHex_J-fCI)

### **Link to the dashboard:-**

[https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my\\_folders%2FProject&action=view&mode=dashboard&subView=model0000017b2c884fba\\_00000000](https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FProject&action=view&mode=dashboard&subView=model0000017b2c884fba_00000000)