

# IPL DASHBOARD

## Background

The Indian Premier League (IPL), is a professional men's Twenty20 cricket league, contested by ten teams based out of seven Indian cities and three Indian states. The league was founded by the Board of Control for Cricket in India (BCCI) in 2007. It is usually held between March and May of every year and has an exclusive window in the ICC Future Tours Programme.

The IPL is the most-attended cricket league in the world and in 2014 was ranked sixth by average attendance among all sports leagues. In 2010, the IPL became the first sporting event in the world to be broadcast live on YouTube. The brand value of the IPL in 2019 was ₹47,500 crore (US\$6.2 billion), according to Duff & Phelps. According to BCCI, the 2015 IPL season contributed ₹1,150 crore (US\$150 million) to the GDP of the Indian economy. The 2020 IPL season set a massive viewership record with 31.57 million average impressions and with an overall consumption increase of 23 per cent from the 2019 season.

Following goals are needed to be achieved.

1. Generate a fully interactive IPL dashboard showing all the stats of players

## Introduction

For this case these steps will be followed to ensure its completion:

1. Ask
2. Prepare
3. Process
4. Analyze
5. Share

Each phase will have some tasks and deliverables.

## Ask

These are the main functionalities demanded.

1. Player stats year-wise against teams on different venues.
2. Venue-wise stats.
3. Toss decision insights.

**Business Task:** To generate a fully interactive dashboard that fulfill all the above functionalities.

## Prepare

IPL's historical ball-by-ball data will be used to generate dashboard. Data source can be viewed [here](#).

Data source for this study is the 13 years (Between 2008 and 2020) of cricket data.

## Process

In this phase, the data cleaning and manipulation is performed.

Tools used: Python and Excel

### Brief Procedure

- Inspecting Null values.
- Checking duplicate values.
- Converting data to suitable format.
- Joining both datasets to convert into one csv file.
- Filling appropriate null values

Here is the python [script](#) for whole process.

## Analyze

In this phase, a bit more of data manipulation and exploratory data analysis is performed.

Tools used: Tableau

### Brief Procedure

- Dataset is loaded in tableau.
- Starts with most basics of stats like most runs, wickets.
- Dived into some more interesting stats like dismissal kind, no. of 4s, no. of 6s.
- Increased level of detail by introducing year-wise distribution, performance against opposition team, venue-wise distribution, etc.
- Calculated stats like strike rate, economy, no. of dots, phase-wise run rate etc.

## Share

In this phase, dashboard is generated from the insights derived from analyzing the data. This dashboard will be shared to stakeholders.

Tools used: Tableau

### Brief Procedure

- Making an interactive dashboard
- Creating a user-guide to instruct about the use of dashboard.

Link to the user-guide. Unfortunately, the interactive dashboard can't be shared due to unavailability of Tableau online account. However, Tableau workbook will be shared containing dashboard with all the interactivity.