

# **INDIAN PREMIER LEAGUE (IPL): DATA VISUALIZATION**

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**PROJECT SYNOPSIS**

FOR PROJECT

**BACHELOR OF TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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# Indian Premier League (IPL): Data Visualization

## Introduction:

The Indian Premier League (IPL) is a professional Twenty20 cricket league in India contested during April and May of every year by teams representing Indian cities and some states. The league was founded by the Board of Control for Cricket in India (BCCI) in 2008. The IPL is the most-attended cricket league in the world and in 2014 ranked sixth by average attendance among all sports leagues. There have been ten seasons of the IPL tournament

## Data

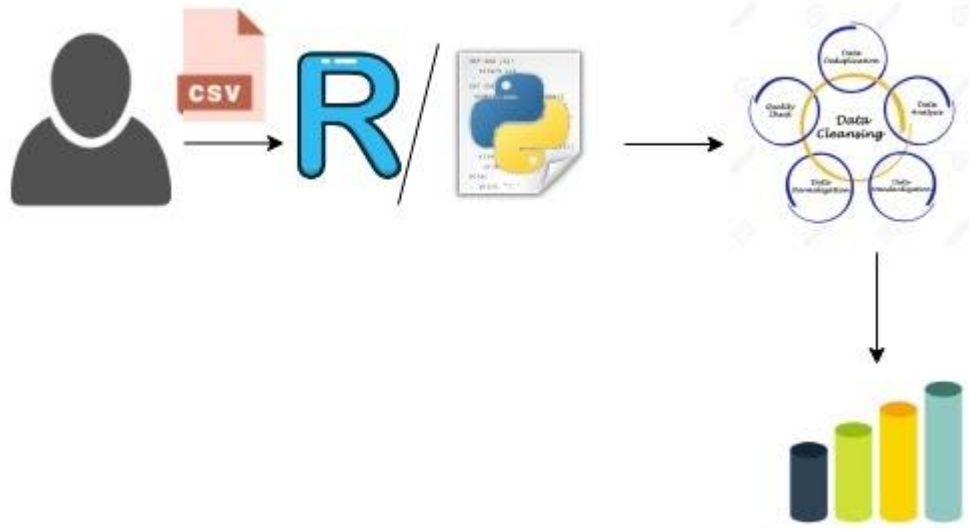
We have 5 different files in the dataset:

- 1) **PLAYER.csv**: Details of all the players who have played in IPL along with their country date of birth, batting/bowling style.
- 2) **PLAYER\_MATCH.csv**: Various states of players like team name, captaincy, keeper etc.
- 3) **TEAM.csv**: IPL team names and ID
- 4) **BALL\_BY\_BALL.csv**: Ball by ball details
- 5) **MATCH.csv**: Match details

You will build the dashboard for visualizing the following:

- Batsmen Stat
- Bowler Stat
- Toss Decisions across Seasons
- Maximum Toss Winners
- Total Matches vs Wins for Teams (INTERACTIVE)
- Is Toss Winner Also the Match Winner?
- Matches played across each season
- Runs across the Seasons
- Average runs per match in each Season
- Sixes and Fours across the Season
- Runs Per Over By Teams across Seasons
- Favourite Umpires
- Team1 vs Team2
- Chances of chasing 200+ target
- Top Batsman's with 1's, 2's, 3's, 4's

## Architecture Flow:



## Included Components:

Following libraries have been included –

- For R Studio
  - o ggplot
  - o igraph
- For Python
  - o Numpy
  - o Panda
  - o Matplotlib

## Featured Technologies:

- R Studio / Python
- Shiny App in R / Jupyter Notebook