

A red cricket ball with white stitching is positioned on a green lawn. The background is slightly blurred, showing a wooden fence or boundary. The entire scene is framed by a white, hand-drawn style border.

# Indian Premier League Analysis

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Project 4 - Data Analysis in Tableau  
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# Agenda

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1. Context
2. Introduction
3. Dashboard 1 - Match Statistics
4. Dashboard 2 - Player Statistics
5. Dashboard 3 - Team Statistics
6. Summary





# Context

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The Indian Premier League, or IPL, is a T20 cricket league founded in 2008 and held annually. It features participation from both national and international players, with eight teams representing Indian cities competing in a double round-robin format followed by playoffs. Over the years, the IPL has evolved into one of the most-watched and attended live sporting events worldwide.

As a data analyst at IPL, a nationally recognised news agency based in New Delhi, you are tasked with building a Tableau dashboard to showcase IPL statistics since its inception. The goal is to create an infographic for a newsletter, allowing the Sports Editor and the team to utilise visual representations and important statistics with interactive features, offering a comprehensive analysis



# Introduction

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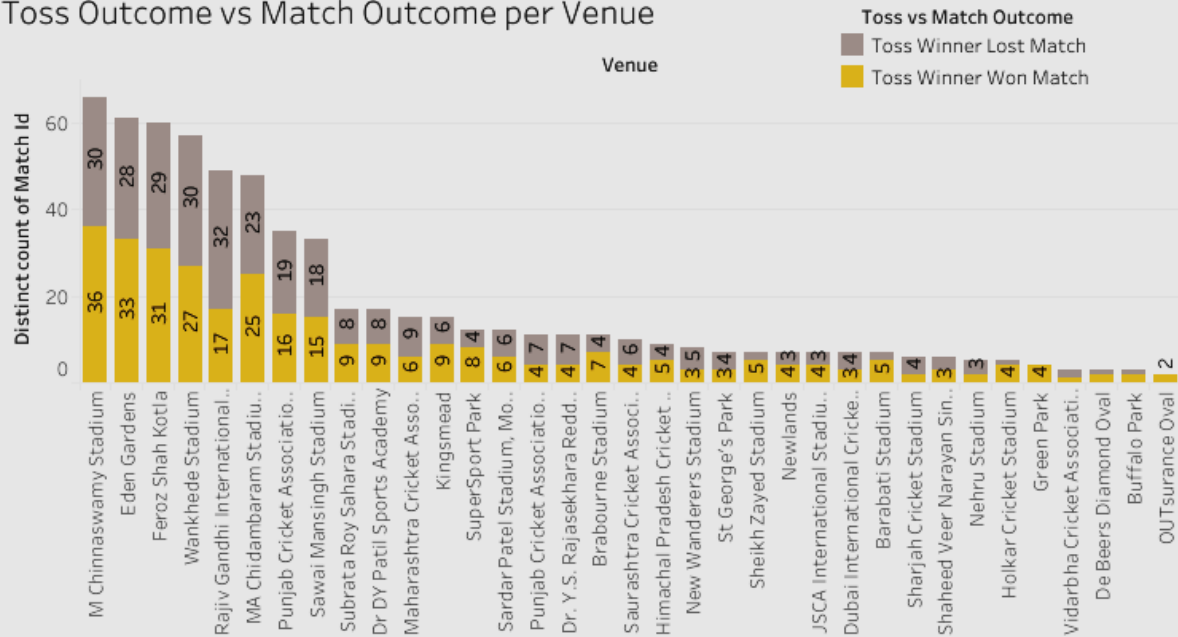
**Goal:** Combine information from two datasets, `matches.csv` and `deliveries.csv`, to create an interactive dashboard highlighting essential IPL statistics over the years.

**Task:** Conducted sports analysis by developing three Tableau dashboards for Match Statistics, Player Statistics, and Team Statistics, utilising IPL data spanning from 2008 to 2017.

**Data:** It consists of two datasets: **`matches.csv`** and **`deliveries.csv`**. The **`matches.csv`** contains match-level information for each match held in IPL from 2008 to 2017. Each row in this dataset contains teams involved in the match, results (which team won, win type, player of the match, etc.) and match specifics (umpires, ground, etc.), while **`deliveries.csv`** contains ball-by-ball information for each of the matches. Each row in contains match-related information (batting team vs bowling team), player information (Bowler, Batsman, Non-striker) and delivery information (Runs scored, Wickets, Extras, etc.).



Toss Outcome vs Match Outcome per Venue



Highest Total Run Across Seasons



Biggest Wins by Runs

Mumbai Indians 146	Kings XI Punjab 111	Delhi Daredevils 97	Sunrisers Hyderabad 85
Royal Challengers Bangalore 144	Rajasthan Royals 105	Deccan Chargers 82	Pune Warriors 38
Kolkata Knight Riders 140	Chennai Super Kings 97	Rising Pune Supergiants 61	Kochi Tuskers

Biggest Wins by Wicket

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

Figure 1

# Dashboard 1 - Match Statistics

## Toss Outcome vs Match Outcome for Venue

M Chinnaswamy Stadium has the largest number of Toss Winners (36), followed by Eden Gardens (33) and Feroz Shah Kotla (31).

## Biggest Wins by Runs

Mumbai Indians lead with the Biggest Win by Runs (149), followed by Royal Challengers Bangalore (144) and Kolkata Knight Riders (140).

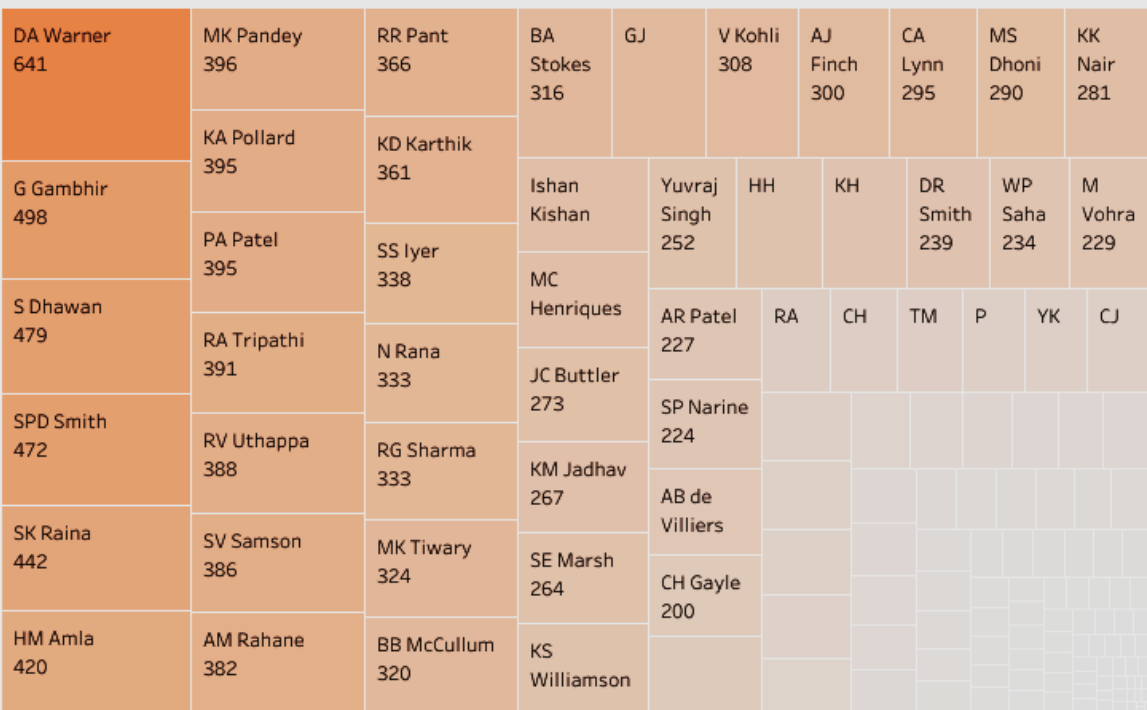
## Biggest Wins by Wicket

Nine teams share the highest mark (10): Chennai Super Kings, Deccan Chargers, Delhi Daredevils, Kings XI Punjab, Kolkata Knight Riders, Mumbai Indians, Rajasthan Royals, Royal Challengers Bangalore and Sunrisers Hyderabad.

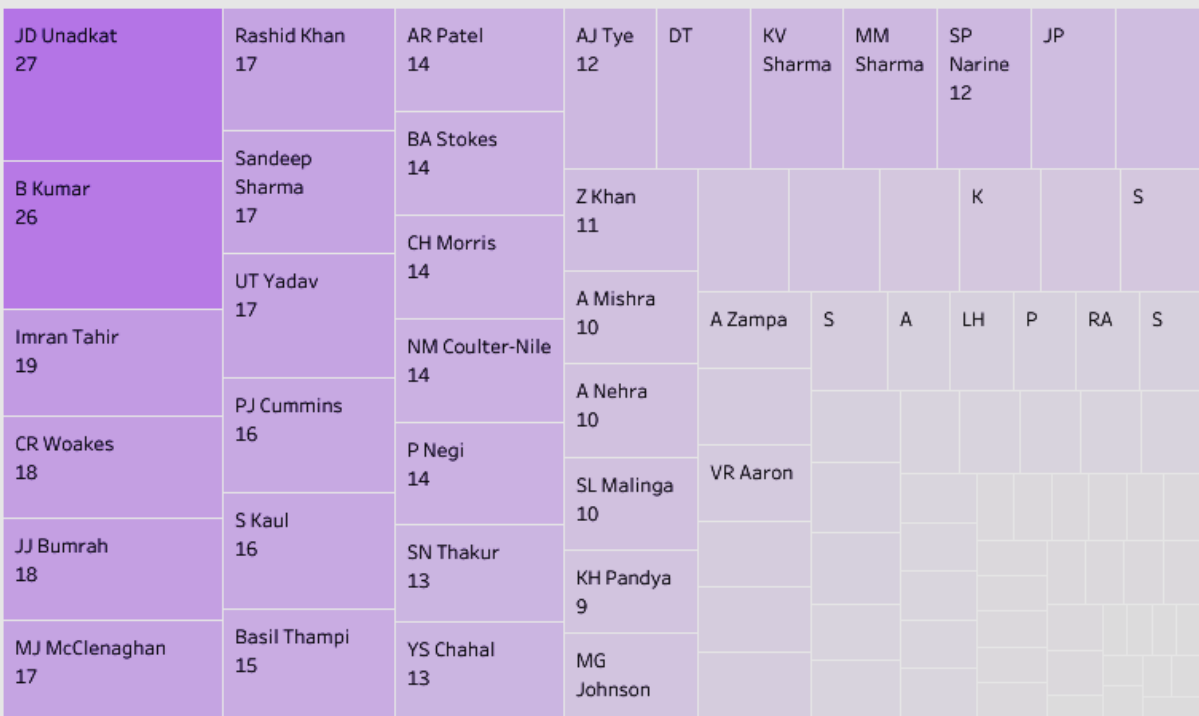
## Highest Totals (Across All Seasons)

The highest mark for Total Runs across all seasons was reached by Kings XI Punjab in 2014 (2,987), followed by Royal Challengers Bangalore (2,981) in 2016 and then Mumbai Indians in 2013 (2,975).

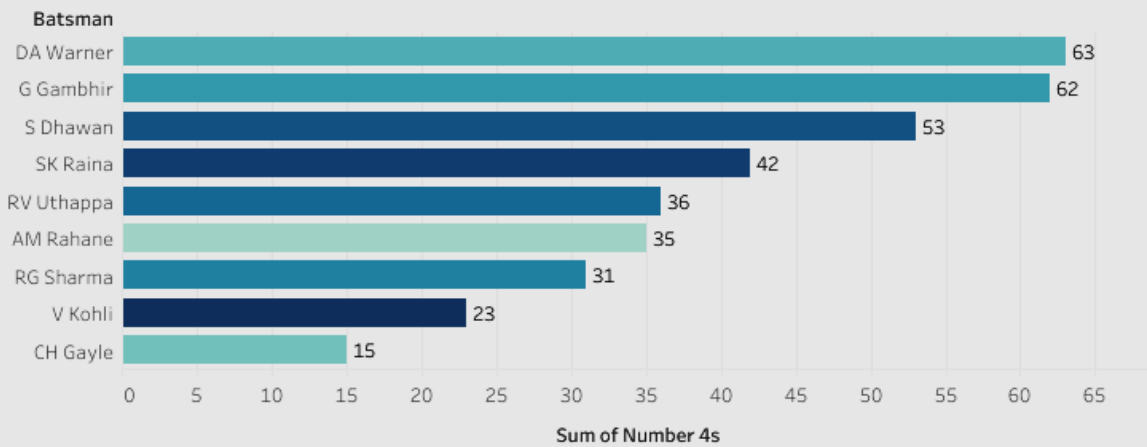
# Orange Cap Contenders



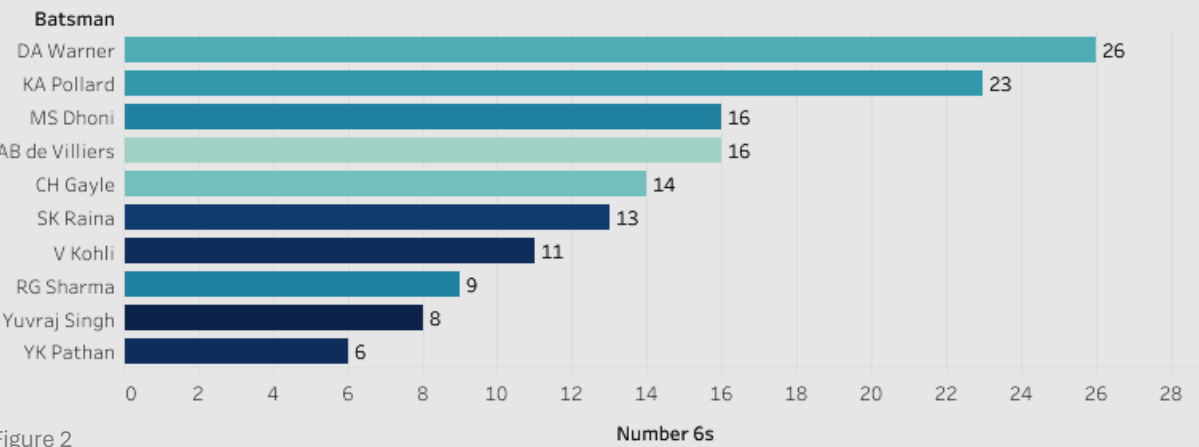
# Purple Cap Containders



# Top 10 Batsman with Most 4s



# Top 10 Batsman with Most 6s



# Dashboard 2 - Player Statistics

## **Orange Cap Contenders (The batsmen who have scored the maximum number of runs in a particular season)**

In 2017, D.A Warner was the batsman who reached the highest run-scored mark of 641, followed by G. Gambhir with a total run score of 498, and S. Dhawan with 479.

## **Purple Cap Contenders (The bowlers who have taken the maximum number of wickets in a particular season)**

Here, It was calculated the total number of players dismissed by the bowler because a high number of player dismissals (batsmen getting out) is an indicator of a bowler's effectiveness and success in getting opposing batsmen out during matches. In 2017, J.D. Unadkat was the bowler with the highest number of wickets, marking 27, followed by B. Kumar with 26, and Imran Tahir with 19.

## **Batsmen who have hit the most number of fours and sixes**

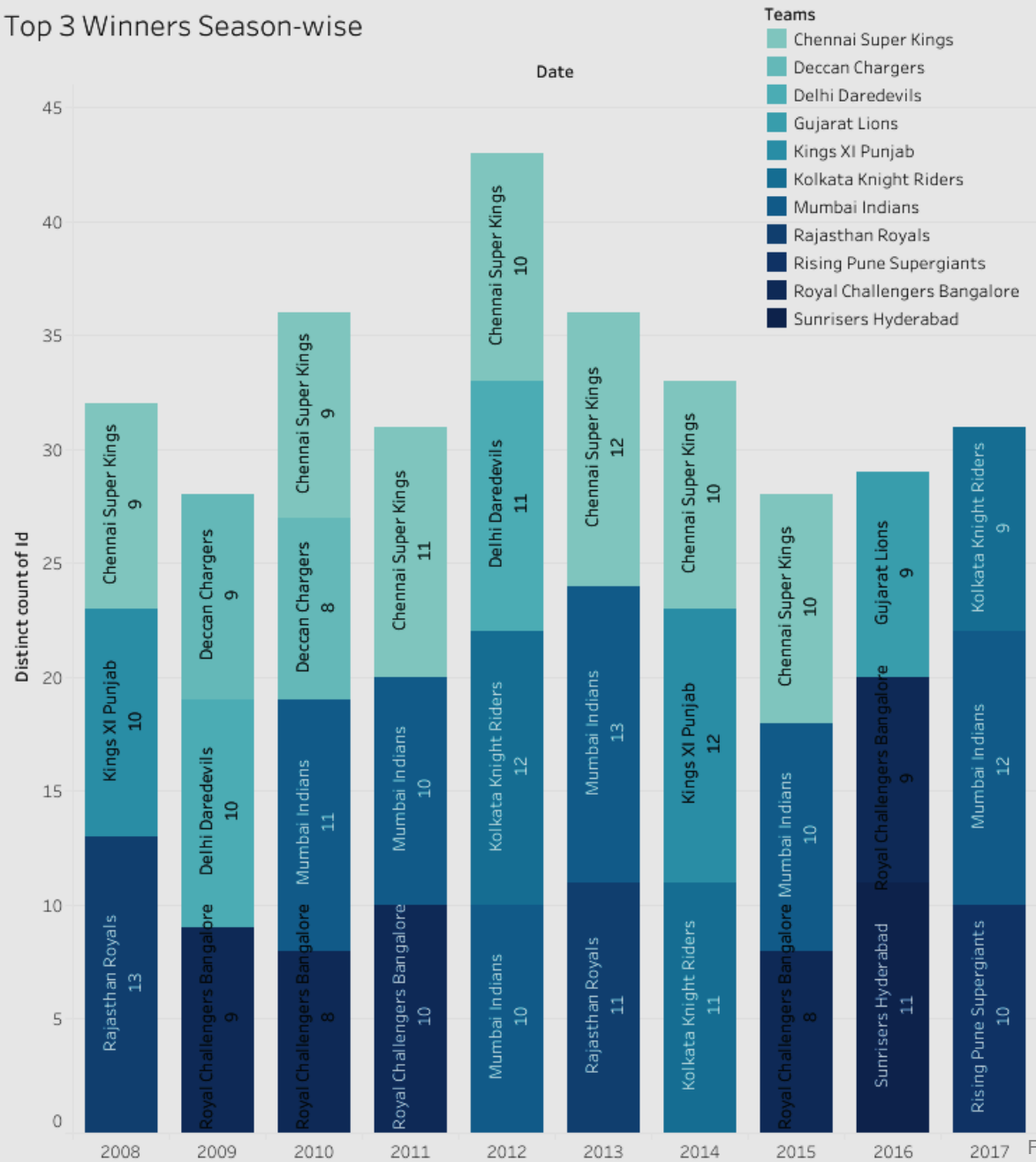
In 2017, the top three run-scorers with the most number of fours were D.A Warner in the first position with a total of 63, G. Gambhir in second, nearly reaching Warner with 62, and S. Dhawan with 53 total runs scored.

Similarly, the top three batsmen who scored the most number of sixes were D.A Warner again in the first position with a total of 26, followed by K.A. Pollard in second with 23. M.S. Dhoni and A.B. de Villiers shared the third position with 16.

**Observation:** This dashboard provides an interactive filter that allows the user to select one or more seasons from 2008 to 2017 or all of them.



### Top 3 Winners Season-wise



### Percentage of Wins per Team - Home vs Away

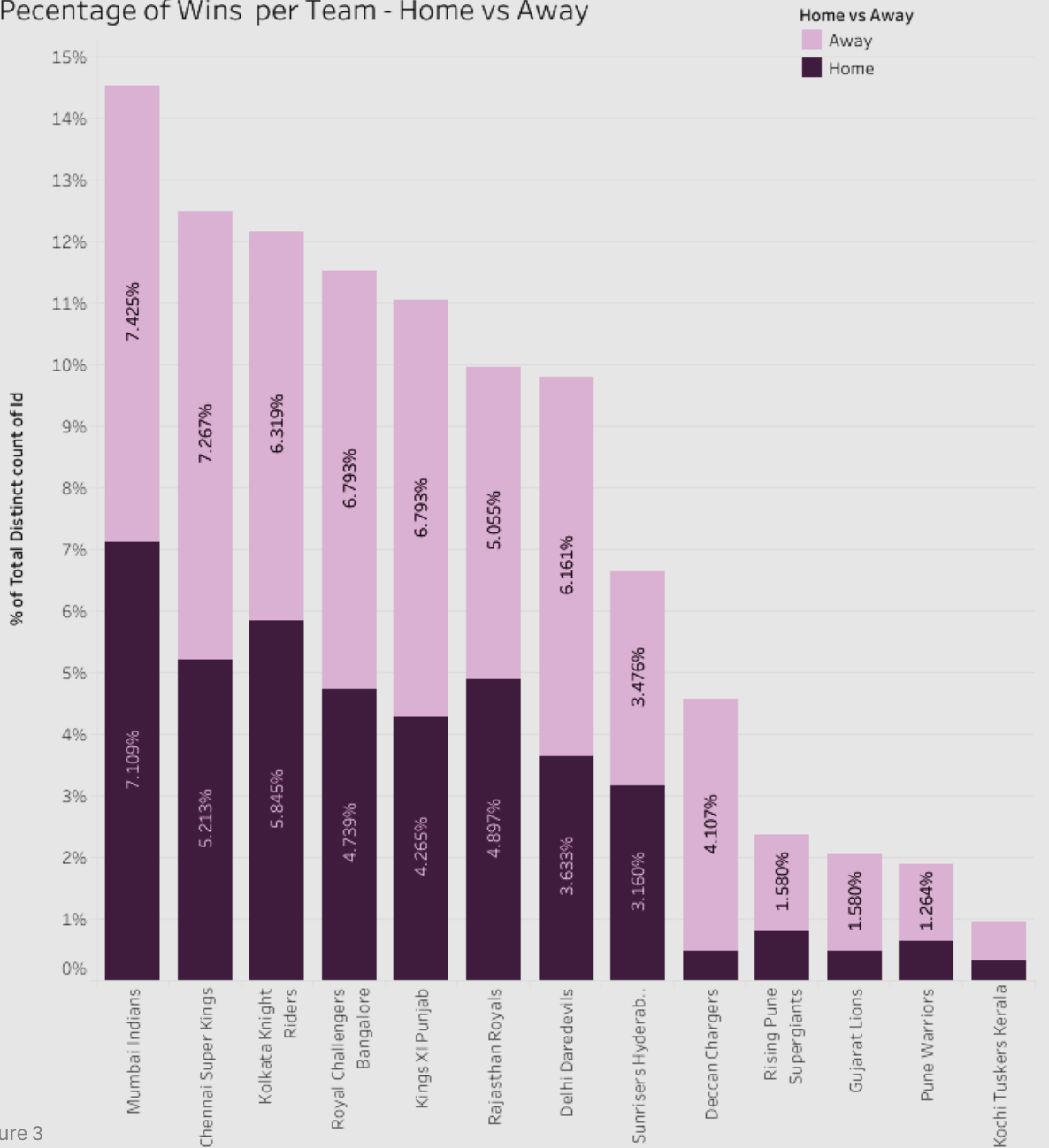


Figure 3

# Dashboard 3 - Team Statistics

## Top 3 Winners Season-wise

- In 2008, Rajasthan Royals launched the first year of the league with 13 victories.
- Then, in 2009, Delhi Daredevils secured the top position with 10 wins.
- In 2010, Mumbai Indians claimed the number one spot of the year with 10 victories. However, in 2011, Chennai Super Kings surpassed Mumbai, reaching 11 wins.
- In 2012, Kolkata Knight Riders emerged as the new star of the season, achieving 12 victories.
- In 2013, Mumbai retook the number one position of the season with 13 wins.
- In 2014, Kings XI Punjab was the star of the year with 12 victories.
- In 2015, the two giants, Mumbai Indians and Chennai Super Kings, together reached the mark of 10.
- In 2016, the new champion Sunrisers Hyderabad set the best mark of 11 wins.
- Finally, in 2017, Mumbai Indians reclaimed the leadership once more, closing the season with 12 victories.

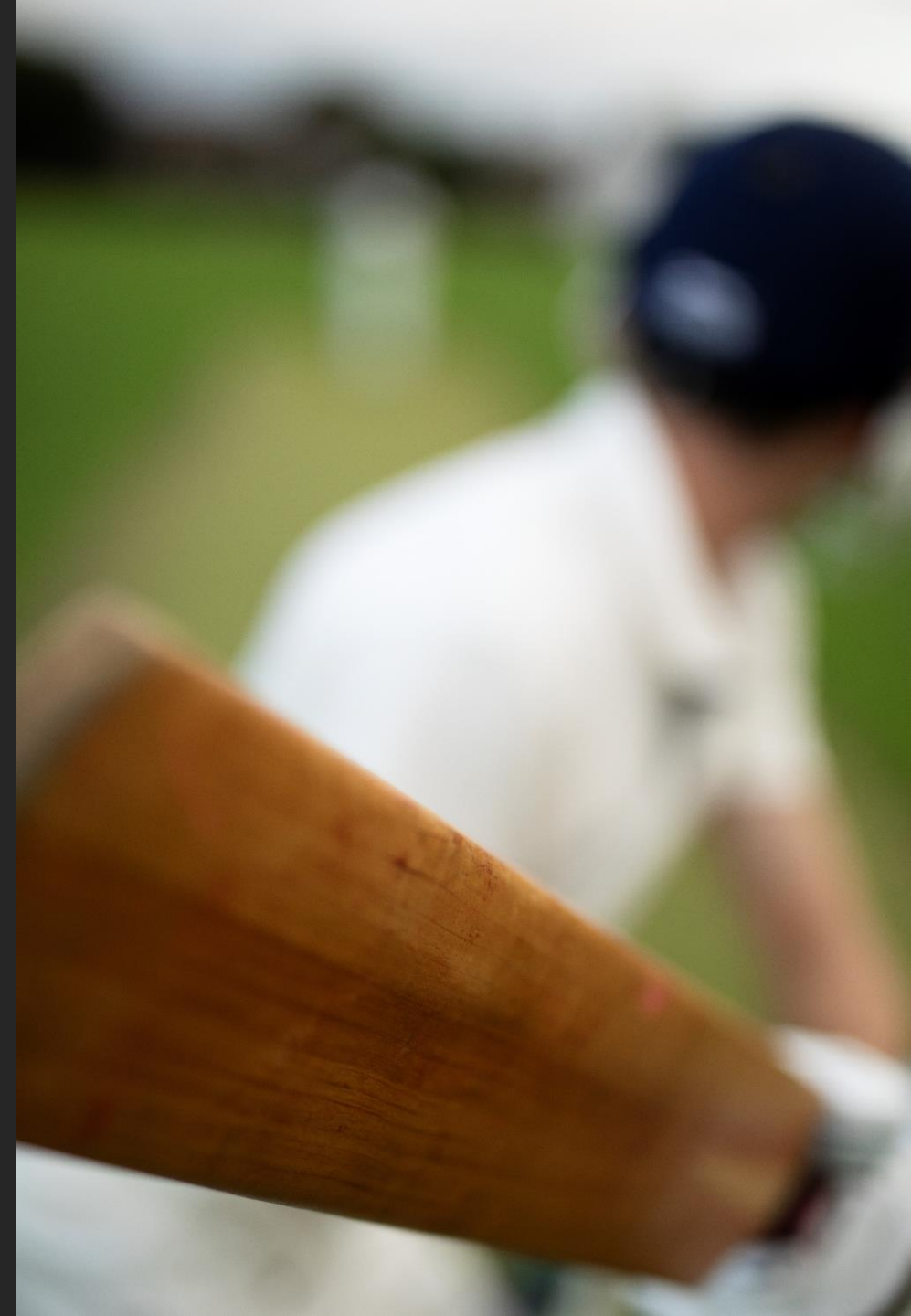
## Percentage of Wins per Team - Home vs Away

Considering the total number of matches (636) as 100%, the graph showcases the triumph of a team, distinguishing between being a home team or an away team, as percentages. Mumbai Indians leads in home victories (7.1%), followed by Kolkata Knight Riders (5.8%) and Chennai Super Kings (5.2%). However, overall, most of the teams conquered more win titles away from home, with Mumbai Indians (7.4%) leading again in away victories, followed by Chennai Super Kings (7.3%), and, in the third position, Royal Challengers Bangalore and Kings XI Punjab together (6.8%).

# Summary

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In summary, the exploration of IPL data through the three dashboards reveals key insights into the tournament's dynamics. M Chinnaswamy Stadium stands out as a pivotal venue, accumulating the highest number of Toss Winners. Mumbai Indians' dominance is evident with the record for the Biggest Win by Runs, while Kings XI Punjab's stellar performance in 2014 holds the distinction of reaching the highest mark for Total Runs across all seasons. In player statistics, the 2017 season showcased D.A Warner as the Orange Cap contender for both the highest run-score and the most fours and sixes, highlighting his extensive batting proficiency. J.D. Unadkat emerges as the Purple Cap contender for the highest wickets in 2017. Looking at team statistics, Rajasthan Royals' inaugural triumph in 2008 with 13 victories remains unmatched, but Mumbai Indians' consistency shines through, securing the highest number of victories over four seasons and leading in home victories. Together, these dashboards provide a comprehensive view of the IPL's historical landmarks and the outstanding contributions of players and teams.





# List of figures

Figure 1 – Dashboard 1 - Match Statistics

Figure 2 – Dashboard 2 - Player Statistics

Figure 3 – Dashboard 3 - Team Statistics

## **Credits:**

Figure on page 2 - Photo by Jurie Maree on Pexel

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