INDIAN PREMIER LEAGUE (IPL) ANALYSIS PROJECT USING EXCEL

Introduction

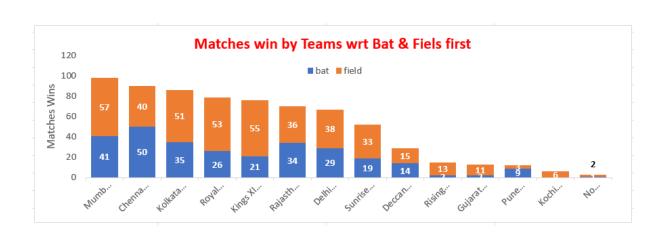
The IPL Data Analysis project using Excel provides an in-depth analysis of the IPL 2008 -2018 season. The project focuses on various aspects such as team performance, match outcomes based on toss decisions, title winners, top venues, and notable players. The goal is to present the findings through detailed and interactive visualizations.

INSIGHTS DERIVED FROM EACH CHART

Matches Win by Teams with Respect to Bat and Field First

This bar chart shows the number of matches won by each team when choosing to bat or field first.

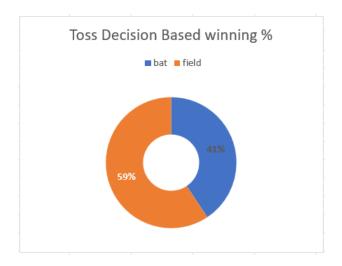
- Mumbai Indians: Achieved the highest wins with 57 wins batting first and 40 wins fielding first.
- Chennai Super Kings: Secured 50 wins batting first and 41 wins fielding first.
- Kolkata Knight Riders: Won 53 matches batting first and 26 matches fielding first.
- Royal Challengers Bangalore: Achieved 51 wins batting first and 29 wins fielding first.
- Kings XI Punjab: Secured 38 wins batting first and 31 wins fielding first.
- Delhi Capitals: Won 34 matches batting first and 19 matches fielding first.
- Sunrisers Hyderabad: Managed 39 wins batting first and 18 wins fielding first.
- **Deccan Chargers**: Achieved 15 wins batting first and 13 wins fielding first.
- Rajasthan Royals: Secured 14 wins batting first and 11 wins fielding first.
- **Gujarat Lions**: Managed 5 wins batting first and 8 wins fielding first.
- Pune Warriors: Achieved 8 wins batting first and 7 wins fielding first.
- Kochi Tuskers Kerala: Secured 2 wins batting first and 3 wins fielding first.



Toss Decision Based Winning Percentage

This pie chart shows the percentage of matches won based on the decision to bat or field first after winning the toss.

- Bat First: 59% of the matches were won by teams that chose to bat first.
- Field First: 41% of the matches were won by teams that chose to field first.



Title Winners

This bar chart displays the title winners of the IPL seasons.

Chennai Super Kings: 3 titles

Mumbai Indians: 3 titles

Kolkata Knight Riders: 2 titles

Deccan Chargers: 1 title

• Sunrisers Hyderabad: 1 title

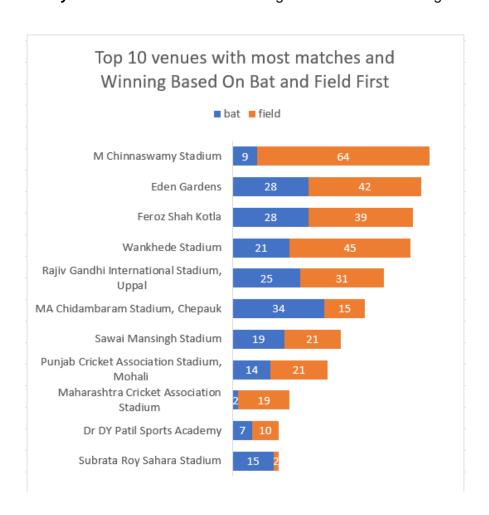
Rajasthan Royals: 1 title



<u>Top 10 Venues with Most Matches and Winning Based on Bat and</u> Field First

This stacked bar chart identifies the top 10 venues with the highest number of matches and their winning records based on batting and fielding first.

- M Chinnaswamy Stadium: 64 wins fielding first and 9 wins batting first.
- Eden Gardens: 42 wins fielding first and 28 wins batting first.
- Feroz Shah Kotla: 39 wins fielding first and 28 wins batting first.
- Wankhede Stadium: 45 wins fielding first and 21 wins batting first.
- Rajiv Gandhi International Stadium, Uppal: 31 wins fielding first and 25 wins batting first.
- MA Chidambaram Stadium, Chepauk: 15 wins fielding first and 34 wins batting first.
- Sawai Mansingh Stadium: 21 wins fielding first and 19 wins batting first.
- Punjab Cricket Association Stadium, Mohali: 21 wins fielding first and 14 wins batting first.
- Maharashtra Cricket Association Stadium: 19 wins fielding first and 12 wins batting first.
- Dr DY Patil Sports Academy: 14 wins fielding first and 7 wins batting first.
- Subrata Roy Sahara Stadium: 2 wins fielding first and 15 wins batting first.



Top 10 Man of the Match (MOM) Award Winners

This bar chart lists the top 10 players with the most Man of the Match awards in the IPL seasons.

• CH Gayle: 20 awards

AB de Villiers: 18 awards

• YK Pathan: 16 awards

RG Sharma: 14 awards

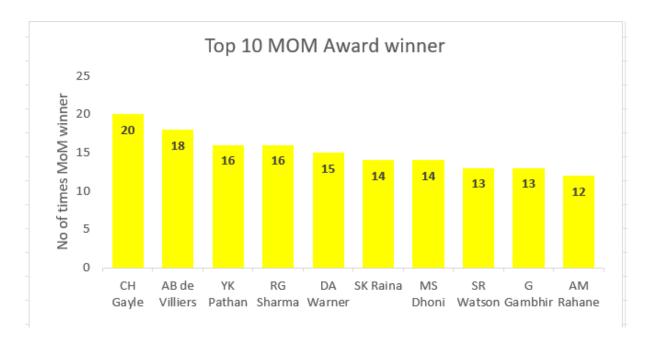
• SK Raina: 14 awards

• MS Dhoni: 13 awards

• SR Watson: 14 awards

G Gambhir: 13 awards

• AM Rahane: 12 awards



Inferences

Team Performance

- **Mumbai Indians** showed the strongest performance with the highest wins when batting first.
- Chennai Super Kings and Kolkata Knight Riders also demonstrated significant performance with balanced wins in both batting and fielding first scenarios.

Toss Decision Impact

• Teams winning the toss and choosing to bat first had a higher winning percentage (59%) compared to those choosing to field first (41%).

Venue Insights

- M Chinnaswamy Stadium and Wankhede Stadium are notable for their higher number of wins when fielding first.
- Eden Gardens and Feroz Shah Kotla showed balanced performance in both batting and fielding first.

Player Performance

• **CH Gayle** and **AB de Villiers** stood out with the highest number of Man of the Match awards, indicating their crucial role in their teams' performances.

Title Winners

• The **Chennai Super Kings** and **Mumbai Indians** have a strong track record with three titles each, showcasing their consistent performance over the seasons.

PROBLEM STATEMENTS AND ANSWERS

Problem Statement 1

Which team has the highest number of wins when batting first?

• **Answer**: The Mumbai Indians have the highest number of wins when batting first, with a total of 57 wins.

•

Problem Statement 2

How does the toss decision impact the match outcome?

 Answer: Teams that chose to bat first after winning the toss had a higher winning percentage (59%) compared to those choosing to field first (41%).

Problem Statement 3

Which venue has the highest number of matches won when fielding first?

• **Answer**: The M Chinnaswamy Stadium has the highest number of matches won when fielding first, with a total of 64 wins.

Problem Statement 4

Who are the top players with the most Man of the Match awards?

 Answer: The top players with the most Man of the Match awards are CH Gayle (20 awards) and AB de Villiers (18 awards).

Problem Statement 5

Which teams have won the most IPL titles?

• **Answer**: The Chennai Super Kings and Mumbai Indians have each won 3 IPL titles, making them the teams with the most titles.

CONCLUSION

The IPL Data Analysis project using Excel provides a comprehensive overview of the IPL season 2008-2018. The detailed visualizations and insights offer valuable information on team performance, the impact of toss decisions, venue effectiveness, and player contributions. These findings can aid in strategic planning for future tournaments, optimizing team performance, and enhancing overall league operations.