

(Bachelor of Computer Application)

A Project Report on
IPL Dashboard
Using Microsoft Excel

Submitted by:

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Abstract of the Project

This project presents a comprehensive analysis of the Indian Premier League (IPL) seasons from 2008 to 2018 using a non-dynamic dashboard built in Microsoft Excel. The dashboard consolidates historical IPL data, providing visual insights into team performances, player achievements, and seasonal trends. With metrics covering match outcomes, top players, venue statistics, and year-on-year performance comparisons, the dashboard offers an accessible summary of a decade of IPL history.

The objective of this project is to enable stakeholders—such as cricket analysts, fans, and strategists—to explore patterns and key highlights in IPL data through user-friendly visuals. The dashboard was constructed by performing data cleaning, transformation, and aggregation to ensure accurate and reliable analysis. Although non-interactive, the dashboard effectively captures critical statistics and trends, enabling deeper understanding of IPL dynamics over the years.

This project lays the foundation for future developments, including adding dynamic features, incorporating recent seasons, and expanding insights through advanced tools like Power BI.

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1. Introduction

a. About the project idea:

The idea behind this project is to create a centralized, visually intuitive dashboard in Microsoft Excel that captures key insights from the Indian Premier League (IPL) seasons from 2008 to 2018. The IPL has grown significantly in popularity and has generated vast amounts of data across various dimensions, including team performances, player statistics, match outcomes, and seasonal trends. This project seeks to provide a user-friendly, data-driven summary of this information, enabling enthusiasts and analysts to explore IPL statistics easily.

b. About tools in use:

The project uses **Microsoft Excel** to create a non-dynamic and interactive dashboard, with data cleaning and preparation handled through **Pivot tables**. These tools together enable effective visualization and analysis of IPL data, providing clear insights.

Resources Required: IPL order dataset, MS Excel & Access to computational resources for model training (e.g., CPU/GPU)

2. Purpose/Scope/Objective of the Analysis

Purpose: The purpose of this analysis is to create a data-driven overview of the Indian Premier League (IPL) seasons from 2008 to 2018, enabling users to quickly understand key patterns, standout performances, and significant trends. By consolidating team and player data, match outcomes, and venue statistics into a single, visually intuitive Excel dashboard, this project aims to provide an accessible tool for fans, analysts, and strategists alike

Scope: The scope of this analysis includes examining team win-loss records, top player performances, season-by-season summaries, and venue-based outcomes. Although non-dynamic, the dashboard delivers actionable insights and serves as a base for future enhancements, such as adding recent data and introducing interactive features for deeper, customized analysis

Objectives: The objective is to turn raw IPL data into meaningful insights, making it easy to explore historical IPL performance trends, identify patterns, and gain a deeper understanding of the factors influencing game outcomes.

3. Requirements for the Project

a. Hardware used:

While the hardware requirements are not overly demanding, a computer with sufficient processing power and RAM (depending on dataset size) will ensure smooth workflow. Processor: Intel core i5, RAM: 12 GB & Storage: 512 GB SSD

b. Software used: Microsoft Excel

c. Technology used:

Access to the IPL order dataset (ideally in a well-structured format like CSV).Data science methodologies, including data preprocessing, exploratory data analysis (EDA).

4. Methodology

a. Introduction:

This project's methodology involves cleaning, transforming, and visualizing IPL data from 2008 to 2018 in Excel. The goal is to create an accessible dashboard that highlights key insights on teams, players, and match outcomes, offering a clear view of IPL trends and performance patterns.

b. General Description:

This project involves creating a non-dynamic IPL dashboard in Excel that visualizes data from 2008 to 2018. It presents key metrics like team records, player statistics, and match outcomes in a user-friendly format, enabling quick exploration of IPL trends and performance insights.

c. Analysis Results:

The analysis results from the IPL dashboard highlight key insights from 2008 to 2018, revealing consistent top-performing teams and standout players in runs and wickets. Seasonal trends show fluctuations in team performance, while venue conditions significantly impacted match outcomes. Overall, the dashboard offers a clear overview of critical statistics and patterns in IPL history during this period.

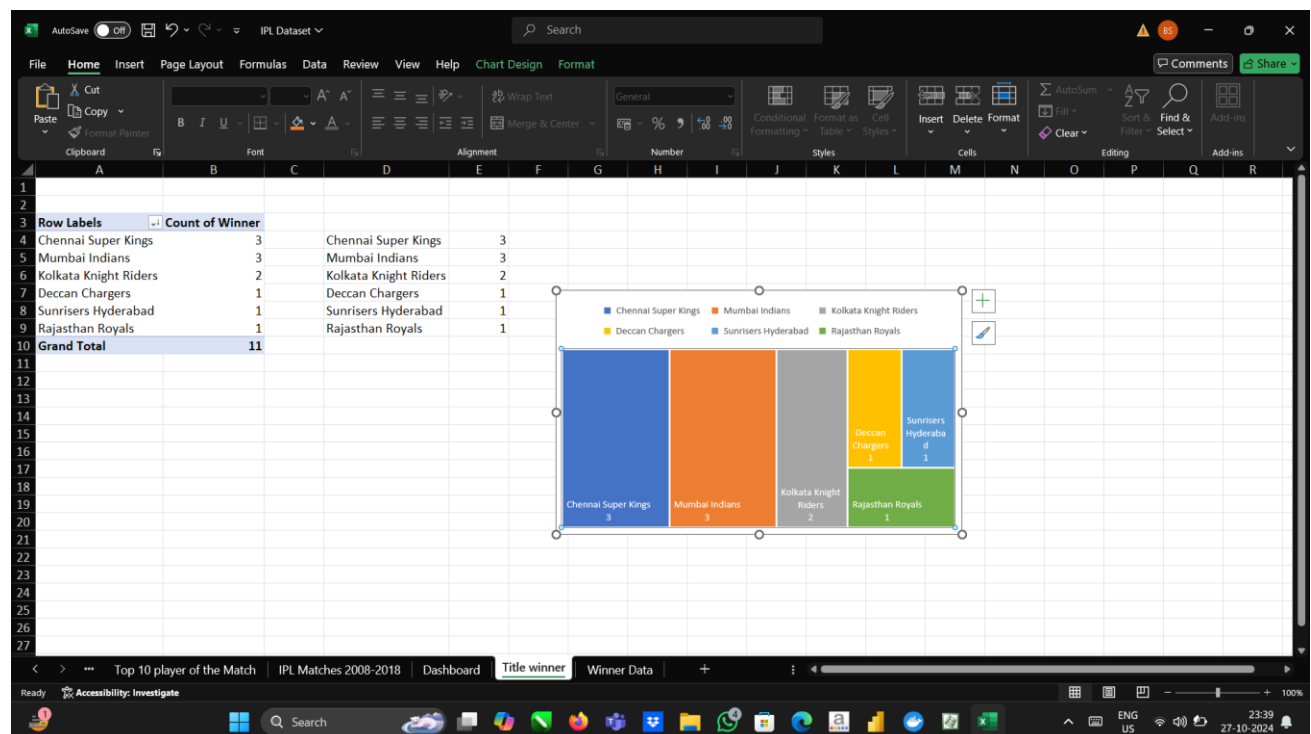
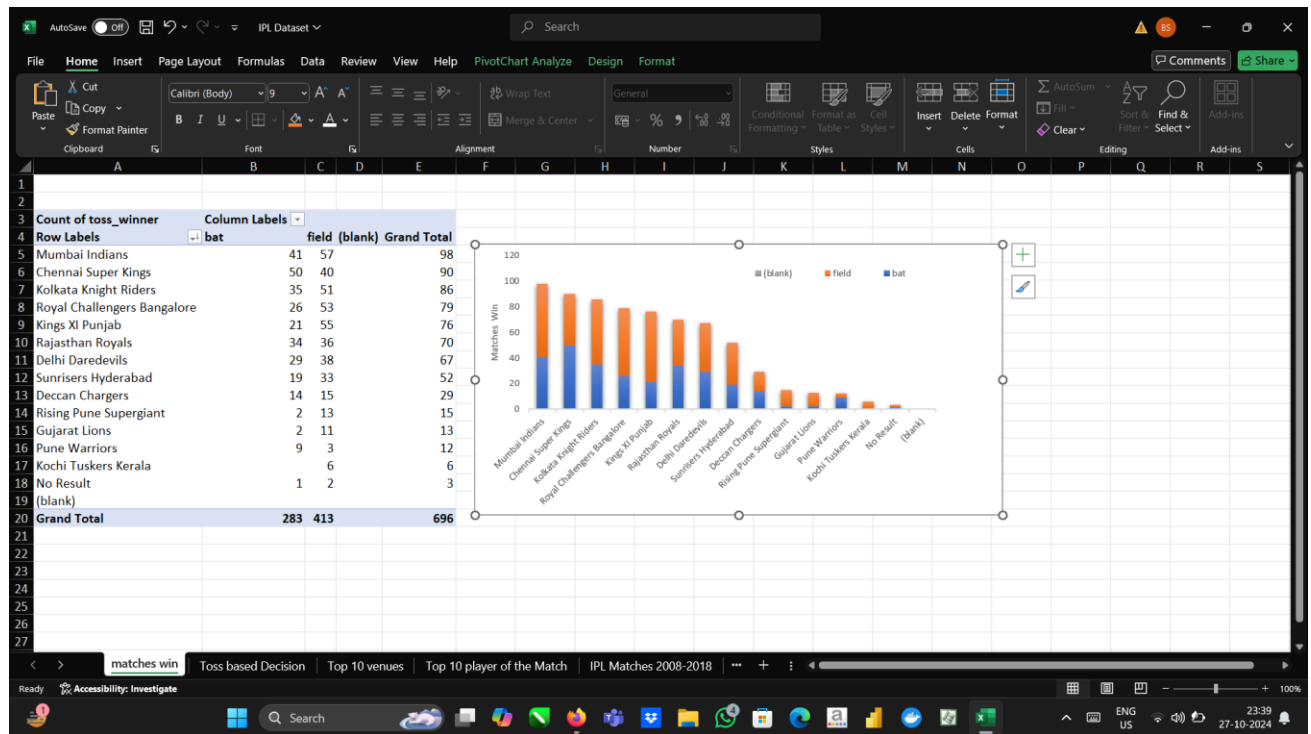
5. Data Cleaning ,Transformation and Pivot Tables

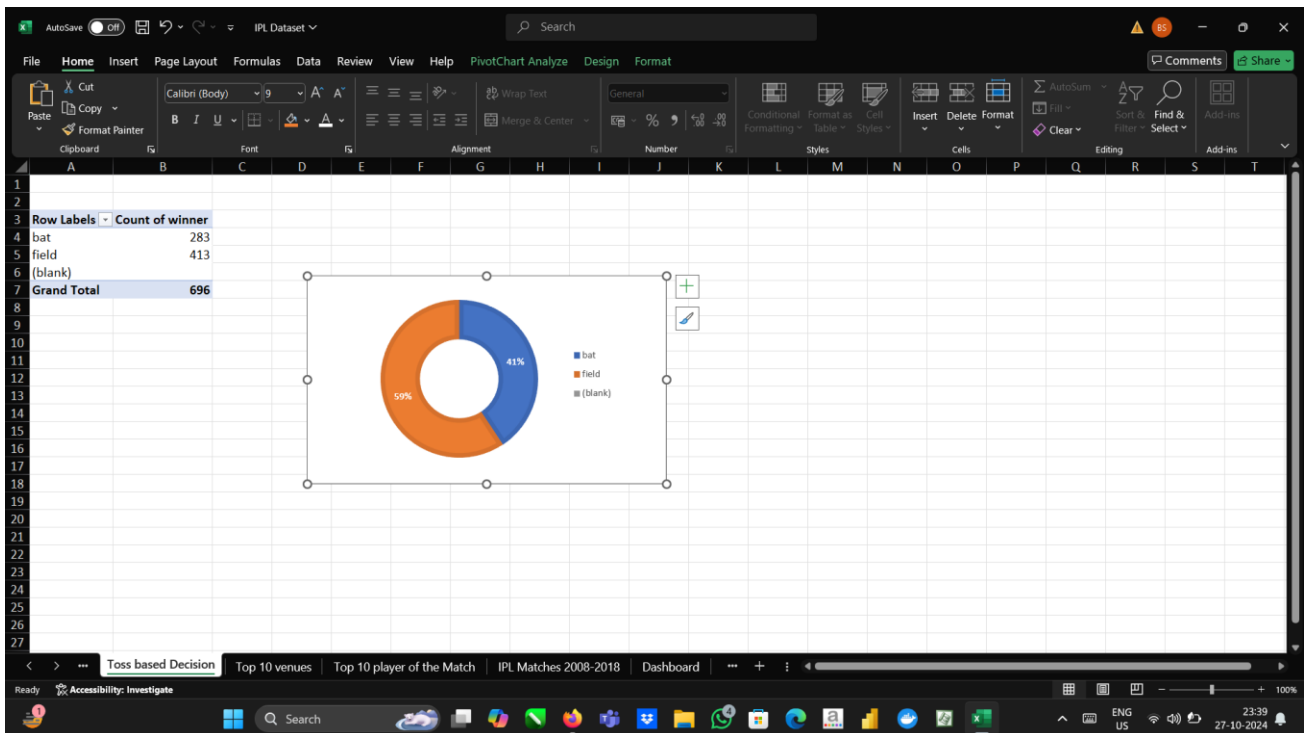
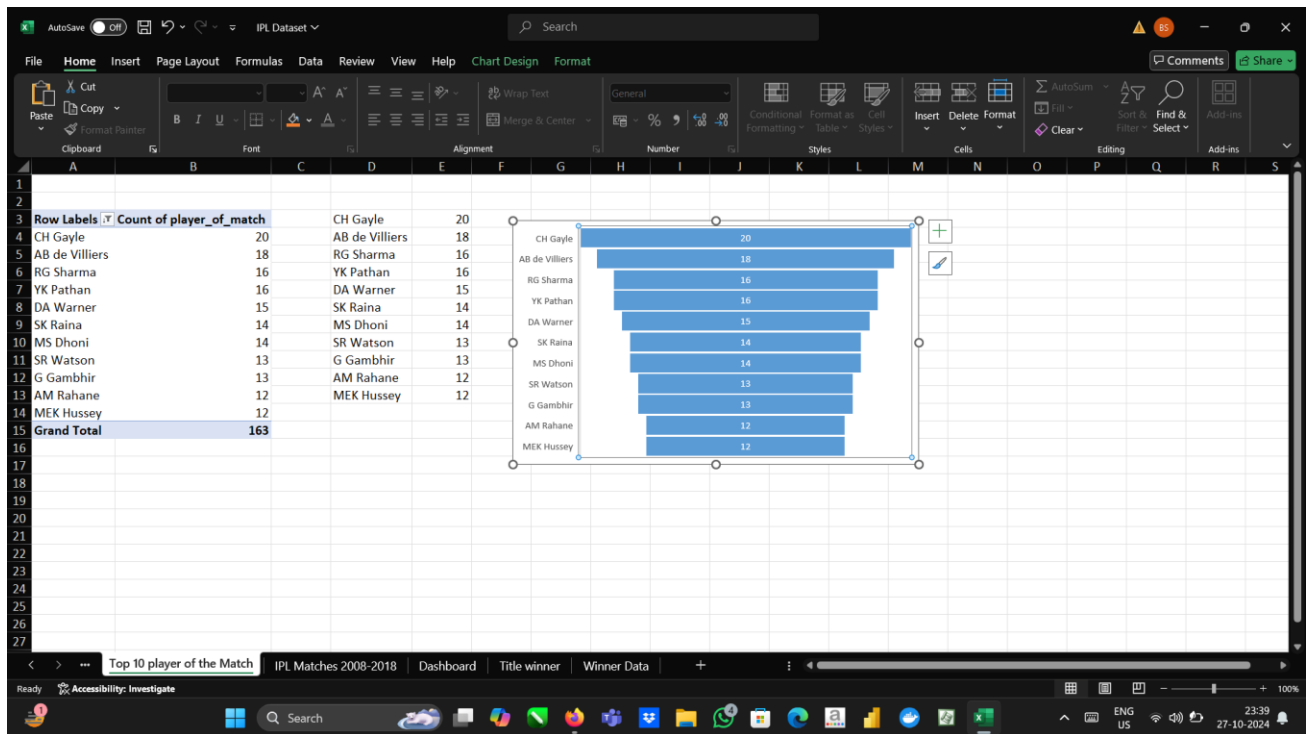
The screenshot shows the Microsoft Excel interface with a table named 'Table1' containing IPL match data. A 'Remove Duplicates' dialog box is open, allowing the user to select columns to check for duplicates. The columns listed are 'id', 'city', 'Year', 'date', and 'player_of_match'. The 'id' and 'city' columns are selected. The background table has columns: 'id', 'city', 'Year', 'date', 'player_of_match', 'venue', 'team1', 'team2', 'toss_winner', and 'toss'.

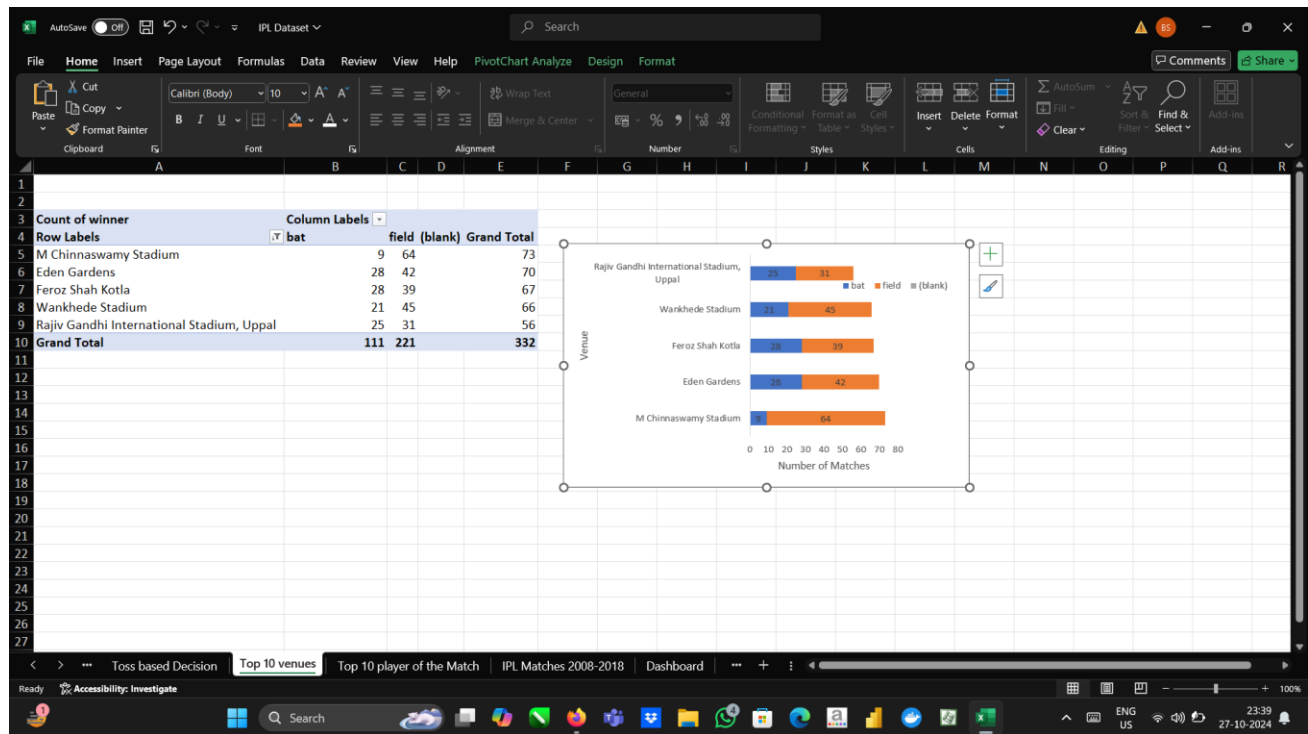
id	city	Year	date	player_of_match	venue	team1	team2	toss_winner	toss
7953	Mumbai	2018	14-05-2018	UT Yadav	Wankhede Stadium	Sunrisers Hyderabad	Chennai Super Kings	Chennai Super Kings	win
7952	Kolkata	2018	13-05-2018	AT Rayudu	Eden Gardens	Sunrisers Hyderabad	Kolkata Knight Riders	Kolkata Knight Riders	win
7951	Kolkata	2018	12-05-2018	SP Narine	Eden Gardens	Kolkata Knight Riders	Rajasthan Royals	Rajasthan Royals	win
7950	Mumbai	2018	11-05-2018	JC Buttler	Wankhede Stadium	Sunrisers Hyderabad	Chennai Super Kings	Chennai Super Kings	win
7948	Delhi	2018	10-05-2018	S Dhawan	Feroz Shah Kotla	Delhi Daredevils	Mumbai Indians	Delhi Daredevils	win
7949	Pune	2018	09-05-2018	Ishan Kishan	Maharashtra Cricket Association Stadium	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings	win
7946	Jaipur	2018	08-05-2018	JC Buttler	Sawai Mansingh Stadium	Rajasthan Royals	Royal Challengers Bangalore	Rajasthan Royals	win
7947	Hyderabad	2018	07-05-2018	KS Williamson	Rajiv Gandhi International Stadium, Uppal	Sunrisers Hyderabad	Kolkata Knight Riders	Sunrisers Hyderabad	win
7945	Delhi	2018	06-05-2018	HH Pandya	Feroz Shah Kotla	Delhi Daredevils	Chennai Super Kings	Chennai Super Kings	win
7944	Bengaluru	2018	05-05-2018	AS Yadav	M Chinnaswamy Stadium	Royal Challengers Bangalore	Sunrisers Hyderabad	Sunrisers Hyderabad	win
7943	Mumbai	2018	04-05-2018	AS Yadav	Wankhede Stadium	Mumbai Indians	Kings XI Punjab	Kings XI Punjab	win
7942	Kolkata	2018	03-05-2018	AS Yadav	Eden Gardens	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	win
7941	Indore	2018	02-05-2018	AS Yadav	Holkar Cricket Stadium	Kings XI Punjab	Royal Challengers Bangalore	Royal Challengers Bangalore	win
7939	Pune	2018	01-05-2018	AS Yadav	Maharashtra Cricket Association Stadium	Sunrisers Hyderabad	Chennai Super Kings	Chennai Super Kings	win
7940	Mumbai	2018	30-04-2018	AS Yadav	Wankhede Stadium	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	win
7937	Indore	2018	29-04-2018	AS Yadav	Holkar Cricket Stadium	Kolkata Knight Riders	Kings XI Punjab	Kings XI Punjab	win
7938	Delhi	2018	28-04-2018	AS Yadav	Feroz Shah Kotla	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	win
7936	Jaipur	2018	27-04-2018	AS Yadav	Sawai Mansingh Stadium	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings	win
7935	Delhi	2018	26-04-2018	AS Yadav	Feroz Shah Kotla	Delhi Daredevils	Sunrisers Hyderabad	Delhi Daredevils	win
7934	Kolkata	2018	25-04-2018	AS Yadav	Eden Gardens	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders	win
7933	Jaipur	2018	24-04-2018	AS Yadav	Sawai Mansingh Stadium	Rajasthan Royals	Kings XI Punjab	Rajasthan Royals	win
7932	Hyderabad	2018	23-04-2018	AS Yadav	Rajiv Gandhi International Stadium, Uppal	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	win
7930	Mumbai	2018	22-04-2018	AS Yadav	Wankhede Stadium	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders	win
7931	Indore	2018	21-04-2018	AS Yadav	Holkar Cricket Stadium	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab	win

The screenshot shows the Microsoft Power Query Editor interface. The main area displays a table with columns: 'id', 'city', 'date', 'player_of_match', 'venue', and 'team1'. The 'Query Settings' panel on the right shows the 'Properties' tab, indicating the source is 'IPL Matches 2008-2018' and the applied steps are 'Source', 'Navigation', 'Promoted Headers', and 'Changed Type'.

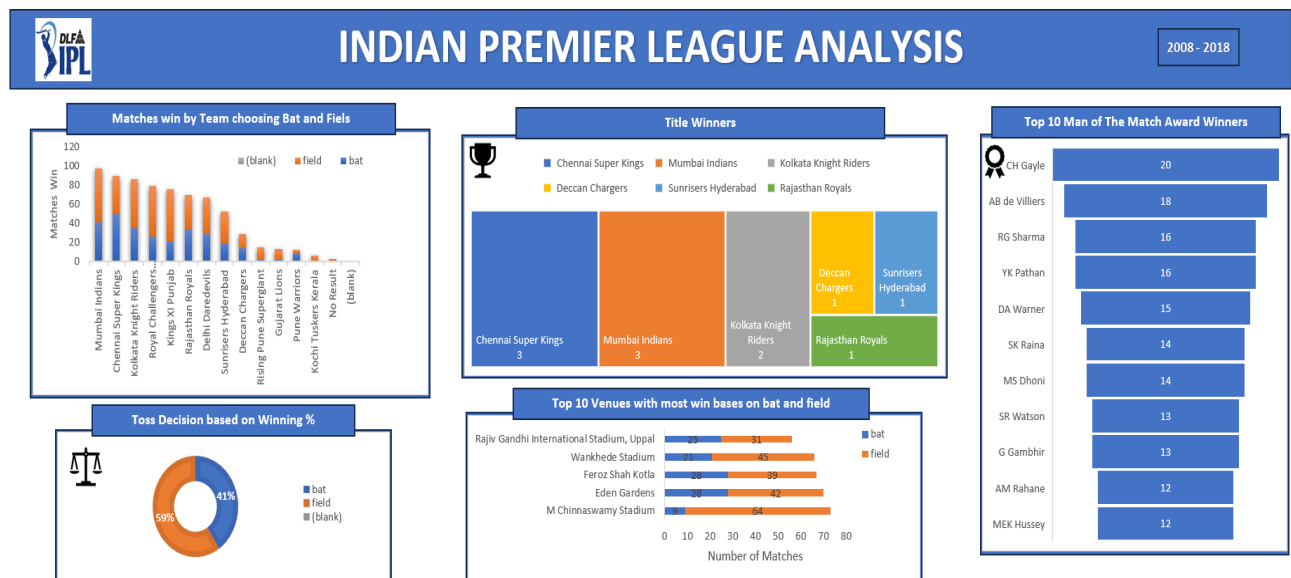
id	city	date	player_of_match	venue	team1
7953	Mumbai	27-05-2018	SR Watson	Wankhede Stadium	Sunrisers Hyderabad
7952	Kolkata	25-05-2018	Rashid Khan	Eden Gardens	Sunrisers Hyderabad
7951	Kolkata	23-05-2018	AD Russell	Eden Gardens	Kolkata Knight Riders
7950	Mumbai	22-05-2018	F du Plessis	Wankhede Stadium	Sunrisers Hyderabad
7948	Delhi	20-05-2018	A Mishra	Feroz Shah Kotla	Delhi Daredevils
7949	Pune	20-05-2018	L Ngidi	Maharashtra Cricket Association Stadium	Kings XI Punjab
7946	Jaipur	19-05-2018	S Gopal	Sawai Mansingh Stadium	Rajasthan Royals
7947	Hyderabad	19-05-2018	CA Lynn	Rajiv Gandhi International Stadium, Uppal	Sunrisers Hyderabad
7945	Delhi	18-05-2018	HV Patel	Feroz Shah Kotla	Delhi Daredevils
7944	Bengaluru	17-05-2018	AB de Villiers	M Chinnaswamy Stadium	Royal Challengers Bangalore
7943	Mumbai	16-05-2018	JJ Bumrah	Wankhede Stadium	Mumbai Indians
7942	Kolkata	15-05-2018	Kuldeep Yadav	Eden Gardens	Rajasthan Royals
7941	Indore	14-05-2018	UT Yadav	Holkar Cricket Stadium	Kings XI Punjab
7939	Pune	13-05-2018	AT Rayudu	Maharashtra Cricket Association Stadium	Sunrisers Hyderabad
7940	Mumbai	13-05-2018	JC Buttler	Wankhede Stadium	Mumbai Indians
7937	Indore	12-05-2018	SP Narine	Holkar Cricket Stadium	Kolkata Knight Riders
7938	Delhi	12-05-2018	AB de Villiers	Feroz Shah Kotla	Delhi Daredevils
7936	Jaipur	11-05-2018	JC Buttler	Sawai Mansingh Stadium	Chennai Super Kings
7935	Delhi	10-05-2018	S Dhawan	Feroz Shah Kotla	Delhi Daredevils
7934	Kolkata	09-05-2018	Ishan Kishan	Eden Gardens	Mumbai Indians
7933	Jaipur	08-05-2018	JC Buttler	Sawai Mansingh Stadium	Rajasthan Royals
7932	Hyderabad	07-05-2018	KS Williamson	Rajiv Gandhi International Stadium, Uppal	Sunrisers Hyderabad
7930	Mumbai	06-05-2018	HH Pandya	Wankhede Stadium	Mumbai Indians
7931	Indore	06-05-2018	M Ur Rahman	Holkar Cricket Stadium	Rajasthan Royals
7928	Pune	05-05-2018	RA Jadeja	Maharashtra Cricket Association Stadium	Royal Challengers Bangalore
7929	Hyderabad	05-05-2018	Rashid Khan	Rajiv Gandhi International Stadium, Uppal	Delhi Daredevils
7927	Indore	04-05-2018	AS Yadav	Holkar Cricket Stadium	Kings XI Punjab







6. Dashboard Visualization



7. Future Scope of Project:

The future scope of this project includes enhancing the IPL dashboard by integrating dynamic features, allowing users to interactively filter data and visualize trends in real-time. Expanding the dataset to include more recent seasons would provide a more comprehensive analysis of ongoing IPL developments. Additionally, transitioning the dashboard to a more advanced platform like Power BI could improve visualizations and interactivity. Future enhancements may also involve incorporating predictive analytics to forecast team performances and player statistics based on historical data, providing deeper insights for fans and analysts alike

8. Conclusion:

In conclusion, this IPL dashboard project successfully consolidates and visualizes key data from the 2008 to 2018 seasons, providing valuable insights into team performances, player statistics, and match outcomes. The non-dynamic Excel dashboard offers a user-friendly interface, making historical IPL data accessible and easy to explore. Through this analysis, critical patterns and trends have been identified, contributing to a better understanding of IPL history. Looking ahead, the project has the potential for significant enhancements, including dynamic features and expanded data, which will further enrich the analysis and provide even deeper insights into the evolving landscape of the IPL.
