



# IPL STATS & ANALYTICS

P R E S E N T A T I O N 2 0 2 6



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Guide

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# OUTLINE

- Abstract of the Project
- Problem Statement
- Proposed Solution
- System Architecture
- Live Demo of the Project
- Embedded Video of Project
- Conclusion
- Future Scope



# Abstract of the Project

- **Audit Objective:** Comprehensive analysis of 17 seasons of IPL data (2008–2025).
- **Methodology:** Implementation of an ETL pipeline and Star Schema data modeling in Power BI.
- **Core Focus:** Identifying team dominance patterns and auditing player "Return on Investment" (ROI).
- **Outcome:** A centralized Business Intelligence dashboard for strategic cricket analytics.

# Problem Statement

- Data Fragmentation:** Raw IPL data is too voluminous and scattered for quick decision-making.
- Lack of Correlation:** Difficulty in linking match-day variables (toss/venue) to final winning outcomes.
- Subjectivity:** Reliance on "expert opinion" rather than empirical data for player evaluation.
- Efficiency Gap:** High manual effort required to track seasonal performance trends across franchises.



# Proposed Solution

- Unified Dashboard:** A single-source-of-truth visual interface using Power BI.
- DAX Modeling:** Custom measures for "on-the-fly" calculation of Strike Rates and Economy.
- Strategic Slicers:** Interactive filters for Season, Venue, and Team for deep-dive auditing.
- KPI Visualization:** Clear tracking of Orange/Purple Cap contenders and team win-ratios.



# System Architecture

## Data Source:

- Structured CSV/Excel datasets containing match and delivery metadata.

## Storage Layer

- Relational Star Schema linking Matches and Deliveries via Match\_ID.

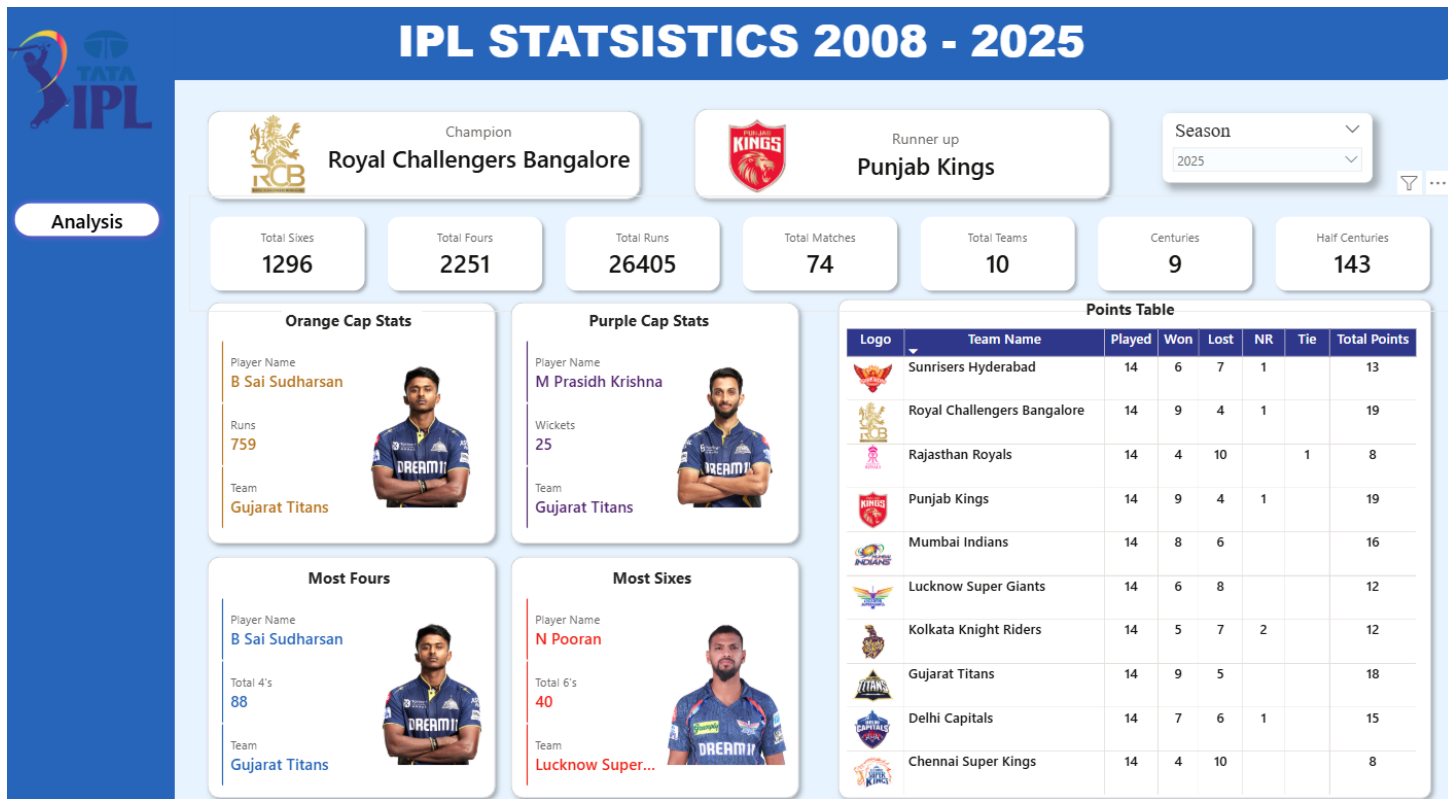
## ETL Layer

- Power Query utilized for data cleaning, standardization, and null-value handling.

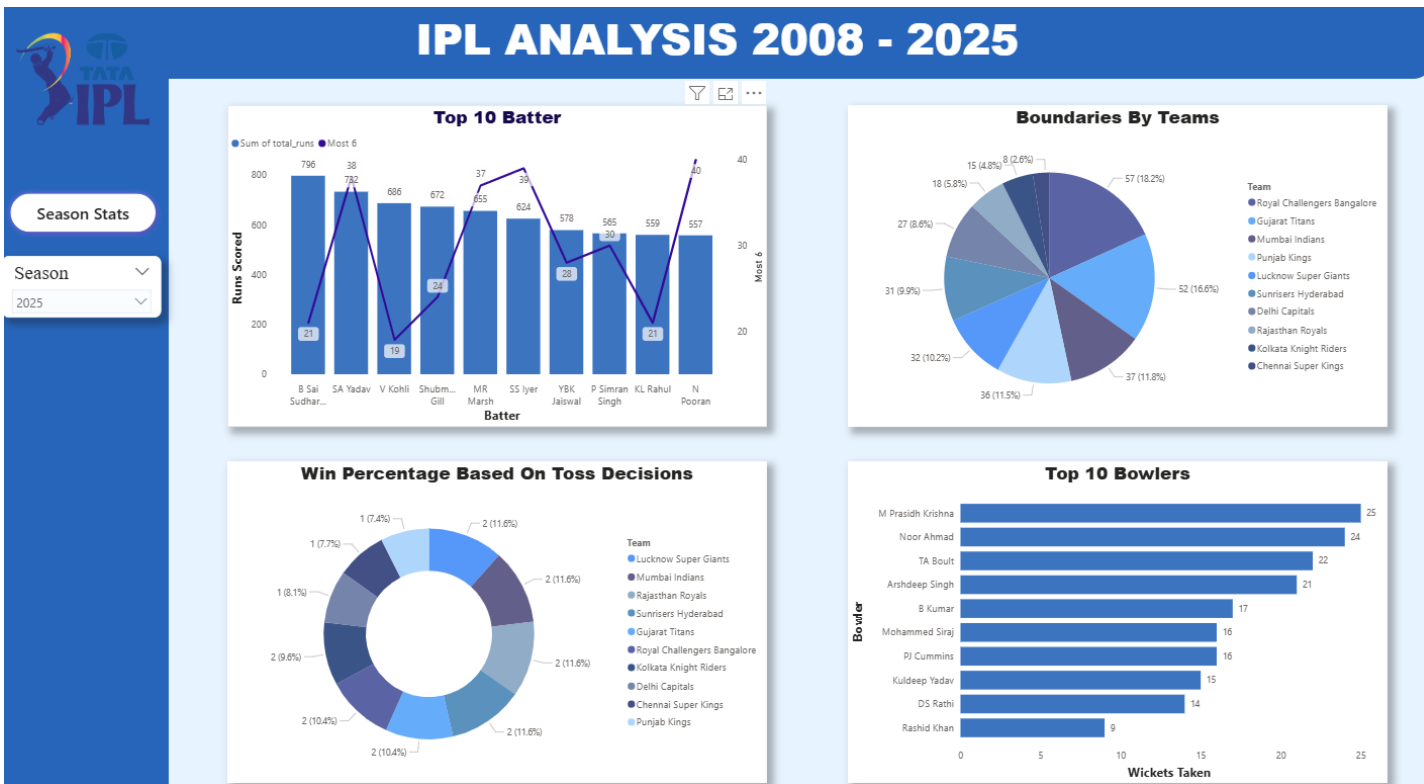
## Reporting Layer

- Interactive visualization engine powered by Power BI Desktop.

# Live Demo of Project



# Live Demo of Project





## Conclusion

- **Strategic Alignment:** Data confirms that venue-specific strategies are key to tournament success.
- **Technical Success:** Successfully transformed 100,000+ rows of data into actionable visual insights.
- **Audit Accuracy:** Automated reporting ensures high data integrity for franchise evaluation.
- **Impact:** Empowers stakeholders to make objective, evidence-based tactical decisions.



## Future Scope

- **Real-time Integration:** Connecting Live Match APIs for ball-by-ball dashboard updates.
- **Predictive AI:** Implementing Machine Learning for "Win Probability" forecasting.
- **Financial Audit:** Linking player auction costs to performance to calculate "Cost per Run."
- **Social Analytics:** Incorporating fan sentiment data to measure player pressure-handling..



# Thank You