



# Interactive IPL Data Analysis: 2008-2017

This presentation covers an interactive Tableau dashboard. It analyzes Indian Premier League (IPL) data from 2008 to 2017. Key visualizations reveal performance indicators and trends across IPL seasons. This provides actionable insights for teams and fans.



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# Data Integration & Preparation

## Data Sources

- ``matches.csv``: Match-level data
- ``deliveries.csv``: Ball-by-ball data


## Key Steps


- Clean missing values
- Join on ``match_id``
- Create calculated fields


The process involves integrating two datasets. This creates a comprehensive dataset. New metrics like win percentage enhance analysis.




# Dashboard Overview & Navigation

 Landing Page

 Filters

 Tooltips

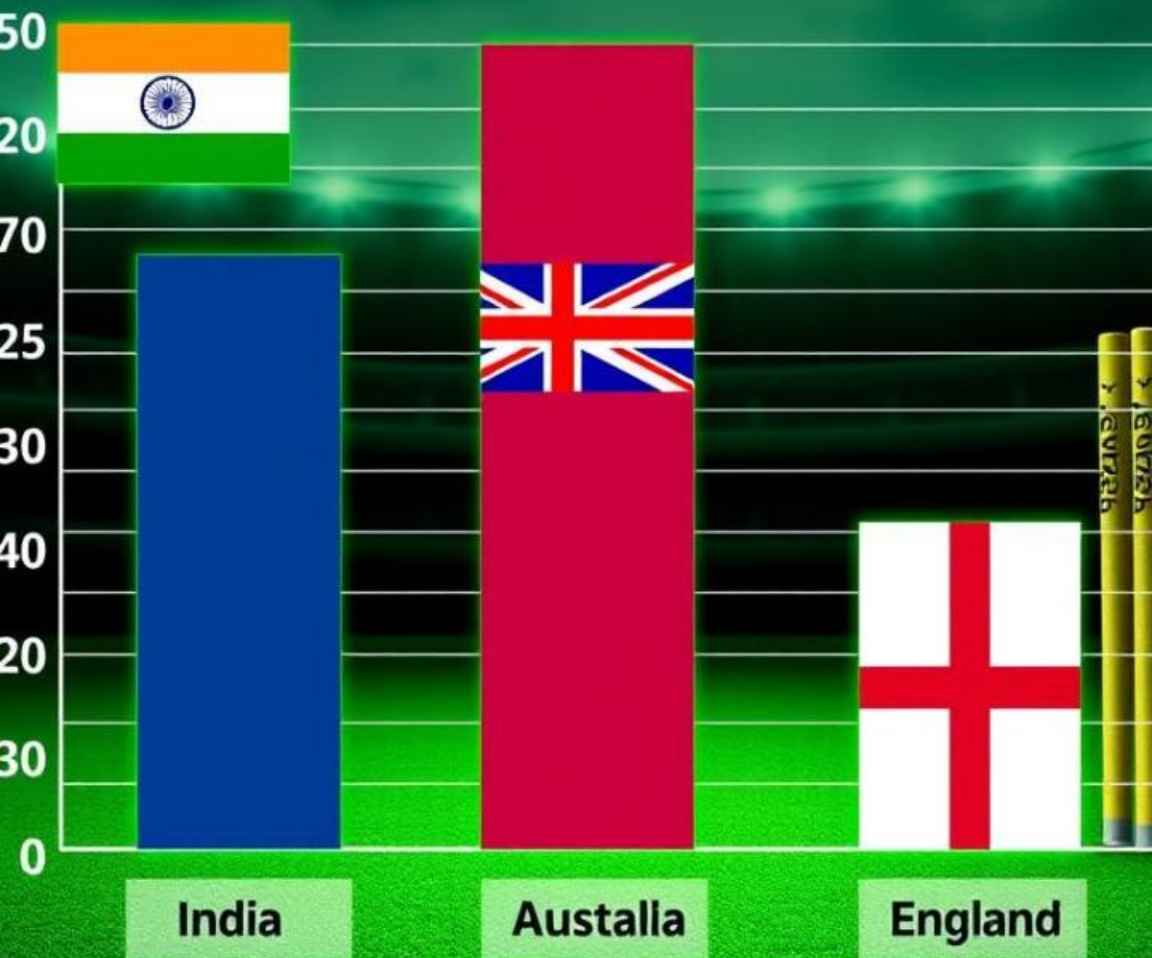
 Action Filters

The dashboard offers a landing page with IPL summaries. Intuitive navigation guides users through key visualizations. Interactive filters enable drill-down analysis by season, team, and city.



# VIM PEW WINS

## WIN PERCEACE



## Toss vs. Match Outcome Analysis



### Toss Decision

Analyze win % based on bat/field choices.



### Venue Impact

Filter by city to see stadium-specific trends.



### Significant Advantage?

Determine if toss provides a win advantage.

A bar chart visualizes win percentages. It is based on toss decisions. This helps determine if winning the toss provides an advantage.

# Orange & Purple Cap Trends

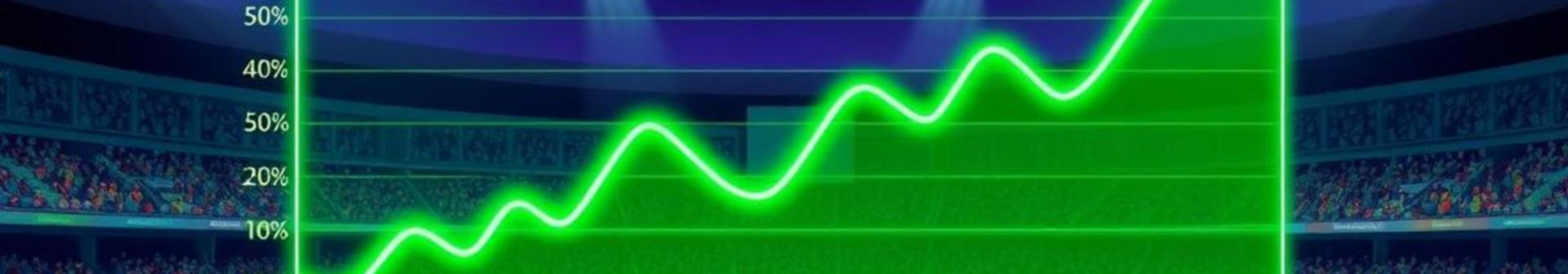
## Orange Cap

Season-wise top batsmen runs

## Purple Cap

Season-wise top bowlers wickets

Line charts display runs and wickets over seasons. Interactive elements highlight player statistics. This identifies consistent performers and emerging talents.



# Season-wise Team Performance

## Metrics

- Matches Played
- Matches Won
- Win Percentage
- Net Run Rate

## Team Comparison

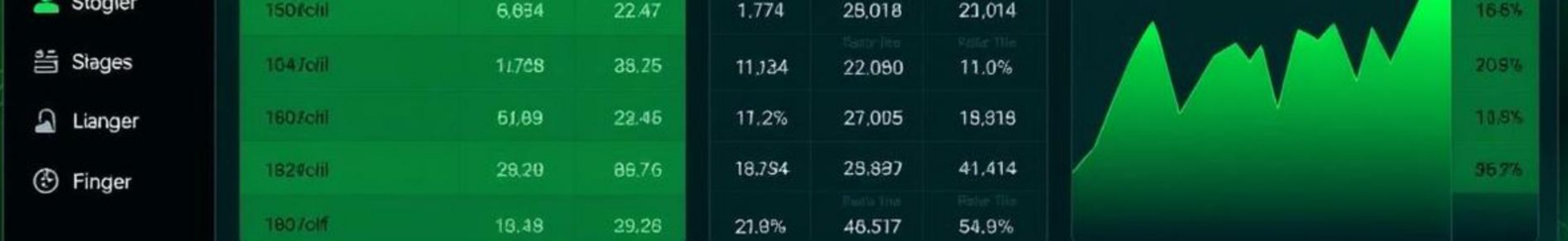
Compare team consistency across seasons.

## Finals Appearances

Identify consistent playoff teams.

A bar chart compares team performance across seasons. Additional metrics highlight teams that consistently reach the playoffs.





# Interactive Elements & Drill-Down Capabilities



## Action Filters

Highlight specific teams/players.



## Tooltips


Display detailed statistics.



## Drill-Down

Navigate to match-level data.

Action filters link visualizations. Tooltips display detailed statistics. Dynamic filters focus on specific criteria.

A group of people in a control room wearing VR headsets and looking at large data screens. The room is dimly lit with red and blue ambient lighting. The screens display various data visualizations, including line graphs and tables.

# Conclusion: Actionable Insights

## Key Findings

Summarize trends observed in data.

## Strategic Advantages

Identify insights for teams.

## Further Analysis

Suggest player comparison.

The dashboard offers valuable IPL analysis. Recommendations include incorporating external data for holistic insights. This aids data-driven strategic decisions.