

# Project Report

## Project Title

### Indian premier League Analytics Dashboard Using MS-Power Bi

#### Objective:

This dashboard delivers a holistic view of IPL's competitive and financial aspects, offering stakeholders insightful data on player efficiency, team strategies, and auction dynamics. By utilizing diverse visualizations, it enables informed decision-making for analysts, franchises, and fans, ensuring a deeper understanding of the tournament's key trends.

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## Dashboard Features

### Section 1: (Home Button)

- A Sankey chart illustrates how often teams chose to field or bat after winning the toss. Wankhede Stadium are highlighted as top venues where the "field first" and MA Chidambaram Stadium are highlighted as top venues where the "bat first" strategy is commonly employed.
- Displays the total brand value of the IPL at \$16 Billion. Shows tax breakdown: 10% for Indian players, 20% for overseas players.
- A bar chart shows average team runs per match: Lucknow Super Giants have the highest average at 182.36. Provides a quick comparative view of team batting performance.
- A table displaying the number of titles won by each franchise: Chennai and Mumbai consider as most successful team with each 5 titles.
- A tree map visualizes the number of Fair Play awards: Chennai Super Kings lead with 6 awards. That indicates their reputation for playing with integrity and sportsmanship has made them the most consistent winners of this award.
- Bar charts compare average auction values of Indian vs Overseas Players: Overseas All-Rounders command the highest average value (~35M). This chart shows overseas has most demand than Indian players

## Section 2: (Batsmen Button)

- A bar chart compares the total runs scored by Indian and Overseas players. Indian players dominate with a combined score of 80,000+ runs.
- A tabular visual ranks batsman by the number of centuries scored: Jos Buttler and Virat Kohli top the list with 5 centuries each.
- Players' Age-wise Performance: Batting performance tends to remain stable or even improve with age, peaking around the late 30s and early 40s.
- Bar chart based on batting average identifies consistency: KL Rahul leads with a batting average of 48, followed by David Warner (42) and Devon Conway (42).
- Average Strike Rate: This chart highlights players with the best scoring efficiency: Jos Buttler again stands out with a strike rate of 150.

## Section 3: (Bowler button)

- Indian bowlers lead significantly with over 1,690 wickets, compared to around 560 wickets by overseas players, highlighting domestic bowling strength in the IPL.
- Most Valuable Bowlers: These stats reflect both wicket-taking ability and run containment. Nathan Coulter-Nile stand out with strong economy and average metrics.
- Bowlers with Both 4-Wicket and 5-Wicket Hauls: A tabular visual identifies rare, impactful bowling performances. Andrew Tye leads with 3 four-wicket hauls and 1 five-wicket haul.
- Bar chart showcasing leading wicket-takers in IPL history: These consistent performances mark them as the core bowling assets of their teams. Y. Chahal tops with 166 wickets.
- 5. A bar graph of bowling averages across age groups shows: Peak bowling efficiency observed at age 21 with an average of 51, possibly due to short-term breakout performances.

## Section 4: (All-Rounders Button)

- A bar chart compares total runs and wickets by Indian vs. Overseas all-rounders. This illustrates a relatively balanced contribution from both groups, with a slight edge in run-scoring from Indian all-rounders.
- A dual bar chart ranks players based on combined runs and wickets: Ravindra Jadeja leads with 2.5K runs and a significant number of wickets, followed by balanced contributions high all-round impact.
- A visual compares players' batting strike rate and bowling average, key indicators of efficiency. Krishnappa Gowtham and Liam Livingstone show high strike rates.
- A bar chart shows strike rate distribution by age group. Peak strike rates are observed in older age groups (34), suggesting maturity and experience may enhance batting impact.

### Conclusion:

Through detailed statistical breakdowns, this dashboard highlights crucial performance metrics, helping identify patterns across batting, bowling, and all-rounder contributions. The insights derived can serve as a foundation for optimizing strategies, enhancing engagement, and driving data-backed decisions in the ever-evolving IPL landscape.