

# Expolatory Data Analysis on Indian Premier League

## Data Science and Business Analytics

GRIP @ The Sparks Foundation

### Task #5 : "Exploratory Data Analysis : Sports (Indian Premier League)"

#### Problem Statement:

*->Find out the most successful teams, players and factors contributing win or loss of a team.*

*->Suggest teams or players a company should endorse for its products.*

#### Conclusion:

-> There are total 12 season played. In 2011, 10 teams participated which is highest among all. In 2011, 2012 & 2013 more than 70 matches were played which were highest in numbers.

-> Maximum number of matches played in "Eden Gardens" & "Wankhede Stadium".

-> Top Winner in the IPL Season was "Mumbai Indians" & "Chennai Super King". Mumbai Indians were on top rank won more than 100 matches whereas Chennai Super Kings were on the 2nd rank with 100 matches.

-> After winning the toss, most of them like to choose fielding first rather than batting and 60.9% team choose fielding first and 39.1% team choose batting first.

-> Kolkata Knight Riders, Mumbai Indians & Chennai Super Kings were the top winner in winning the toss.

->Mumbai Indians, Kings XI Punjab, Royal Challengers Bangalore, Chennai Super Kings & Kolkata Knight Riders were the top 5 Teams with more than 25000 Runs in IPL season.

-> MS Dhoni, DA Warner, CH Gayle, AB de Villiers, RG Sharma were the top 5 players with more than 15 times won player of the match award in the IPL season.

-> SK Raina, RG Sharma, DA Warner, V Kohli, S Dhawan were the top 5 Batsman with highest runs scorer in the IPL season.

Top 5 Batsman with highest strike rate were CH Gayle, KA Pollard, DA Warner, SR Watson.

### **Suggestions**

1. If the company is looking for successful team for promoting its products are : Mumbai Indians, Royal Challengers Bangalore, Kings XI Punjab, Chennai Super Kings and Kolkata Knight Riders as they all are successful teams with highest popularity among people.

2. If the company is looking for star player, then CH Gayle, AB de Villiers, RG Sharma, MS Dhoni, DA Warner as these players have consistently propelled their respective teams to victory through exceptional individual contributions.

3. If the company is looking for top Batsman, V Kohli, RG Sharma, SK Raina, DA Warner, S Dhawan are the most successful Batsman.