# DATA ANALYSIS REPORT:

# IPL – Dataset

**Introduction -:**

The Indian Premier League (IPL) is a professional Twenty20 cricket league in India contested by franchise teams representing different cities.

The datasets provided give comprehensive information on IPL matches and players, which can be used for various analyses, such as performance evaluation, team comparisons, and player statistics.

These datasets can be used to analyze various aspects of IPL matches and player performances from the 2008 to 2016 seasons.

The first-ever IPL match was held on 18th April 2008 at Bangalore Stadium between KKR and RCB, which was won by KKR by 140 runs.

**There are 2 datasets –**

1. ipl-matches-dataset.csv

This dataset helps in evaluating team performance, comparing teams, and identifying key contributors to teams' success.

This dataset is essential for analyzing trends in match results, the impact of home vs. away games, and performance under various conditions.

2. ipl-players-dataset.csv

This dataset provides detailed information about the players participating in the IPL. It can be used to analyze individual and team performances, player roles, and career progressions. The key columns typically found in such a dataset are:


**KEY INSIGHTS - :**

- The most fav players of max audience MS Dhoni and V Kohli.

  MS Dhoni and V Kohli have scored the most runs against each other's teams in these 9 years with 608 and 706 runs respectively.

MS Dhoni:

1. Royal Challengers Bangalore   608
2. Mumbai Indians            581
3. Kings XI Punjab           453

V Kohli:

1. Chennai Super Kings    706
2. Delhi Daredevils      661
3. Kings XI Punjab       483

RG Sharma:

1. Kolkata Knight Riders    710
2. Delhi Daredevils        670
3. Chennai Super Kings      535

- **Top 3 teams with the most wins:**
    1. Mumbai Indians            92
    2. Chennai Super Kings        79
    3. Kolkata Knight Riders      77
- **Top 3 players with the highest strike rates:**
    1. AB de Villiers     145.129059
    2. YK Pathan        140.751445
    3. KA Pollard       140.621266
- **Top 5 Indian players with the highest strike rates:**
    1. YK Pathan        140.751445
    2. Harbhajan Singh    135.194585
    3. SK Raina          134.995548
    4. MS Dhoni          132.835821
    5. KM Jadhav         130.555556
- **Top 3 teams with the most matches played:**
    1. Mumbai Indians            157
    2. Royal Challengers Bangalore   152
    3. Kings XI Punjab            148
- **Top 5 players who faced the most balls:**
    1. V Kohli        3494
    2. G Gambhir      3433
    3. SK Raina       3369
    4. RG Sharma      3274

5. S Dhawan        3005

- **Top 5 players who hit the most fours:**
    1. G Gambhir    484
    2. SK Raina     402
    3. DA Warner    401
    4. S Dhawan     401
    5. V Kohli      384

- **Top 5 players who hit the most sixes:**
    1. CH Gayle        266
    2. SK Raina        174
    3. RG Sharma       173
    4. V Kohli         160
    5. DA Warner       160

- **Top 5 players who scored the most threes:**
    1. M Vijay         17
    2. S Dhawan        16
    3. G Gambhir       15
    4. AM Rahane       14
    5. DA Warner       13

- **Top 3 teams that won the most matches on their home ground:**
    1. Mumbai Indians    45
    2. Kolkata Knight Riders    37
    3. Chennai Super Kings    33