



Data Analysis and Predictions

# INDIAN PREMIER LEAGUE<sup>®</sup>

2021-2023



# PROBLEM STATEMENT

1

"Sports Basics" is a sports blog company that entered space recently. They wanted to get more traffic to their website by releasing a special edition magazine on IPL 2024.

2

This magazine aims to provide interesting insights and facts for fans, analysts and teams based on the last 3 years' data.

3

The chief editor Tony Sharma oversees this publication, and he believes in data analytics. He reached out to Peter Pandey, a journalist in his team who is a data savvy cricket enthusiast.

# PRIMARY AND SECONDARY ANALYSIS

1. Top 10 batsmen based on past 3 years total runs scored.
2. Top 10 batsmen based on past 3 years batting average. (min 60 balls faced in each season)
3. Top 10 batsmen based on past 3 years strike rate (min 60 balls faced in each season)
4. Top 10 bowlers based on past 3 years total wickets taken.
5. Top 10 bowlers based on past 3 years bowling average. (min 60 balls bowled in each season)
6. Top 10 bowlers based on past 3 years economy rate. (min 60 balls bowled in each season)
7. Top 5 batsmen based on past 3 years boundary % (fours and sixes).
8. Top 5 bowlers based on past 3 years dot ball %.
9. Top 4 teams based on past 3 years winning %.
10. Top 2 teams with the highest number of wins achieved by chasing targets over the past 3 years.

# BATTING ANALYSIS

## 1. Top 10 batsmen based on past 3 years total runs scored.

**SHUBMAN GILL** AS THE  
MAXIMUM **RUNS OF 1851** OVER  
PAST 3 YEARS AND HAS PLAYED 50  
INNINGS

SECOND highest total runs were  
set by **FAFDUPLESSIS** of over **1831**  
and has played total innings of 46

even though **KLRAHUL** AND  
**JOSBUTTLER** got to play 37 and 38  
innings to play they ended up in  
top 5 in total runs

| batsmanName     | Inning | Runs |  |
|-----------------|--------|------|--|
| ShubmanGill     | 50     | 1851 |  |
| FafduPlessis    | 46     | 1831 |  |
| RuturajGaikwad  | 45     | 1593 |  |
| KLRahul         | 37     | 1516 |  |
| JosButtler      | 38     | 1509 |  |
| ShikharDhawan   | 40     | 1392 |  |
| ViratKohli      | 45     | 1385 |  |
| SanjuSamson     | 45     | 1304 |  |
| SuryakumarYadav | 38     | 1225 |  |
| GlennMaxwell    | 41     | 1214 |  |

## 2. Top 10 batsmen based on past 3 years batting average

**KLRAHUL** has the highest batting average above 50 i.e (50.53)

**FAFDUPLESSIS, JOSBUTTLER, SHUBMAN GILL** has the batting avg above 40

| batsmanName      | Inning | Runs |  | strike rate | Batting Avg |
|------------------|--------|------|--|-------------|-------------|
| KL Rahul         | 37     | 1516 |  | 40.97       | 50.53       |
| Faf du Plessis   | 46     | 1831 |  | 39.80       | 43.60       |
| Jos Buttler      | 38     | 1509 |  | 39.71       | 41.92       |
| Shubman Gill     | 50     | 1851 |  | 37.02       | 40.24       |
| Shikhar Dhawan   | 40     | 1392 |  | 34.80       | 39.77       |
| Ruturaj Gaikwad  | 45     | 1593 |  | 35.40       | 37.93       |
| Suryakumar Yadav | 38     | 1225 |  | 32.24       | 35.00       |
| Glenn Maxwell    | 41     | 1214 |  | 29.61       | 34.69       |
| Virat Kohli      | 45     | 1385 |  | 30.78       | 33.78       |
| Sanju Samson     | 45     | 1304 |  | 28.98       | 32.60       |

### 3. Top 10 batsmen based on past 3 years strike rate.

**KLRAHUL** has the highest capacity of making runs and has a strike rate **40.97**

Followed by **FAFDUPLESSIS** and **JOSBUTTLE** has strike rate more than **39**.

| batsmanName      | Inning | Runs | strike rate |
|------------------|--------|------|-------------|
| KL Rahul         | 37     | 1516 | 40.97       |
| Faf du Plessis   | 46     | 1831 | 39.80       |
| Jos Buttler      | 38     | 1509 | 39.71       |
| Shubman Gill     | 50     | 1851 | 37.02       |
| Ruturaj Gaikwad  | 45     | 1593 | 35.40       |
| Shikhar Dhawan   | 40     | 1392 | 34.80       |
| Suryakumar Yadav | 38     | 1225 | 32.24       |
| Virat Kohli      | 45     | 1385 | 30.78       |
| Glenn Maxwell    | 41     | 1214 | 29.61       |
| Sanju Samson     | 45     | 1304 | 28.98       |

#### 4. Top 5 batsmen based on past 3 years boundary %

**JOSBUTTLER,GLENNMAXWELL**  
**,SURYAKUMARYADAV** has the capacity to hit six and fours .they has the boundary% of **above 68%**

**SANJUSAMSON,SHIKHARDHAWA**  
**N** are in the top 5 bats man to hit boundaries and has boundary % 65.49% and 62%

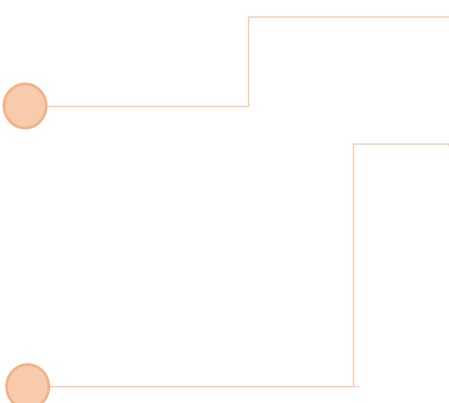
| batsmanName     | Inning | Runs |  | strike rate | Batting Avg | boundary% |
|-----------------|--------|------|--|-------------|-------------|-----------|
| JosButtler      | 38     | 1509 |  | 39.71       | 41.92       | 68.92     |
| GlennMaxwell    | 41     | 1214 |  | 29.61       | 34.69       | 68.70     |
| SuryakumarYadav | 38     | 1225 |  | 32.24       | 35.00       | 68.24     |
| SanjuSamson     | 45     | 1304 |  | 28.98       | 32.60       | 65.49     |
| ShikharDhawan   | 40     | 1392 |  | 34.80       | 39.77       | 62.07     |
| RuturajGaikwad  | 45     | 1593 |  | 35.40       | 37.93       | 61.14     |
| FafduPlessis    | 46     | 1831 |  | 39.80       | 43.60       | 60.51     |
| ShubmanGill     | 50     | 1851 |  | 37.02       | 40.24       | 58.35     |
| KL Rahul        | 37     | 1516 |  | 40.97       | 50.53       | 57.26     |
| ViratKohli      | 45     | 1385 |  | 30.78       | 33.78       | 54.73     |

# BOWLER ANALYSIS

1. Top 10 bowlers based on past 3 years wickets taken.

HIGHEST wicket taker is **MOHAMMED SHAMI** .he has taken **47 wicket** and hold 1 rank .in past 3 years

**RASHID KHAN** and **YUZVENDRACHAHAL** hold second position with **46 wickets** in past 3 years



| bowlerName         | W  |  |
|--------------------|----|--|
| MohammedShami      | 47 |  |
| RashidKhan         | 46 |  |
| YuzvendraChahal    | 46 |  |
| MohammedSiraj      | 44 |  |
| HarshalPatel       | 43 |  |
| RavichandranAshwin | 42 |  |
| SunilNarine        | 42 |  |
| VarunChakravarthy  | 42 |  |
| RavindraJadeja     | 41 |  |
| ArshdeepSingh      | 40 |  |
| TrentBoult         | 40 |  |



## 2.. Top 10 bowlers based on past 3 years bowling average.

HARSHAL PATEL ,ARSHDEEPSINGH  
AND TRENTBOULT has the highest  
bowling avg of 30 to 31

MOHAMMED SHAMI holds the 4<sup>th</sup>  
position with bowling avg of 29.89

| bowlerName         | W  |  | bowling avg |
|--------------------|----|--|-------------|
| HarshalPatel       | 43 |  | 30.77       |
| ArshdeepSingh      | 40 |  | 30.50       |
| TrentBoult         | 40 |  | 30.25       |
| MohammedShami      | 47 |  | 29.89       |
| YuzvendraChahal    | 46 |  | 28.98       |
| VarunChakravarthy  | 42 |  | 28.79       |
| RashidKhan         | 46 |  | 28.63       |
| MohammedSiraj      | 44 |  | 28.23       |
| RavichandranAshwin | 42 |  | 27.98       |
| SunilNarine        | 42 |  | 25.14       |
| RavindraJadeja     | 41 |  | 24.73       |

### 3. Top 10 bowlers based on past 3 years economy rate.

MOHAMMED SHAMI has an excellent bowling economy of nearly 17.55

YUZVENDRACHAHAL has the second highest economy of nearly 16.65 followed by HARSHAL and RASHID 16

| bowlerName         | W . | bowling avg | Econ  |
|--------------------|-----|-------------|-------|
| MohammedShami      | 47  | 29.89       | 17.55 |
| YuzvendraChahal    | 46  | 28.98       | 16.65 |
| HarshalPatel       | 43  | 30.77       | 16.52 |
| RashidKhan         | 46  | 28.63       | 16.45 |
| MohammedSiraj      | 44  | 28.23       | 15.51 |
| ArshdeepSingh      | 40  | 30.50       | 15.24 |
| TrentBoult         | 40  | 30.25       | 15.11 |
| VarunChakravarthy  | 42  | 28.79       | 15.10 |
| RavichandranAshwin | 42  | 27.98       | 14.67 |
| SunilNarine        | 42  | 25.14       | 13.19 |
| RavindraJadeja     | 41  | 24.73       | 12.66 |

#### 4. Top 10 bowlers based on past 3 years economy rate.

MOHAMMED SHAMI has an highest dot ball % of nearly **1.06%**

MOHAMMED SIRAJ has the second highest dot ball % of around **0.91%**

| bowlerName         | W  |  | bowling avg | Econ  | dot ball % |
|--------------------|----|--|-------------|-------|------------|
| MohammedShami      | 47 |  | 29.89       | 17.55 | 1.06%      |
| MohammedSiraj      | 44 |  | 28.23       | 15.51 | 0.91%      |
| TrentBoult         | 40 |  | 30.25       | 15.11 | 0.88%      |
| RashidKhan         | 46 |  | 28.63       | 16.45 | 0.80%      |
| VarunChakravarthy  | 42 |  | 28.79       | 15.10 | 0.75%      |
| YuzvendraChahal    | 46 |  | 28.98       | 16.65 | 0.75%      |
| SunilNarine        | 42 |  | 25.14       | 13.19 | 0.75%      |
| HarshalPatel       | 43 |  | 30.77       | 16.52 | 0.71%      |
| ArshdeepSingh      | 40 |  | 30.50       | 15.24 | 0.65%      |
| RavichandranAshwin | 42 |  | 27.98       | 14.67 | 0.61%      |
| RavindraJadeja     | 41 |  | 24.73       | 12.66 | 0.56%      |

# TEAM ANALYSIS

## Top 4 teams based on past 3 years winning %.

On the base of past 3 year of data **RCB** has the highest winning % of 21.74%. followed by **SUPER KINGS** and **TITANS** has nearly the same winning %

Top 4 winning% (21-2023)



Top 3 All-Rounder (2021-2023)

| batsmanName   | Runs | SR    | Avg   |
|---------------|------|-------|-------|
| HardikPandya  | 960  | 23.41 | 30.97 |
| VenkateshIyer | 956  | 26.56 | 28.12 |
| ShivamDube    | 937  | 27.56 | 32.31 |

## Top 2 team with highest wins by chasing target over past 3years

**RCB** and **SUPER KING** are the top 2 teams won by highest margin of **112** and **91 runs** .

And by wickets **RCB** has won by **10 wickets**

wins by  
highest  
margin

| win         | margin   |
|-------------|----------|
| RCB         | 112 runs |
| Super Kings | 91 runs  |

| win | margin     |
|-----|------------|
| RCB | 10 wickets |

# PREDICTION

## Orange cap

- 1.Virat Kohli (runs-361,batting avg-72.20)
- 2.Riyan Parag (runs-318,batting avg-63.60)

## purple cap

- 1.Jasprit Bumrah (wickets-13,economy-5.93)
- 2.Gerald Coetzee (wickets-12,economy-9.92)
- 2.Yuzvendra Chahal (wicket-12,economy-8.34)

\*as of 2024 points table

## 3. Winner and runner-up



Winner-CSK



Runner up-RR

## 2. Top 4 qualifying teams



CSK



KKR



RR



SRH

# BEST 11 TEAM

## Pick Your Best 11

| name            | playingRole         | Innings | Runs | Batting Avg | strike rate | boundary% | Wicket | bowling avg | Economy   | dot ball % |
|-----------------|---------------------|---------|------|-------------|-------------|-----------|--------|-------------|-----------|------------|
| ShubmanGill     | Opening Batter      | 50      | 1851 | 40.24       | 37.02       | 58.35     |        |             |           |            |
| FafduPlessis    | Middle order Batter | 46      | 1831 | 43.60       | 39.80       | 60.51     |        |             |           |            |
| RuturajGaikwad  | Batter              | 45      | 1593 | 37.93       | 35.40       | 61.14     |        |             |           |            |
| KLRahul         | Wicketkeeper Batter | 37      | 1516 | 50.53       | 40.97       | 57.26     |        |             |           |            |
| ShikharDhawan   | Opening Batter      | 40      | 1392 | 39.77       | 34.80       | 62.07     |        |             |           |            |
| GlennMaxwell    | Batting Allrounder  | 41      | 1214 | 34.69       | 29.61       | 68.70     | 23     | 17.13       | 314.36    | 14.23%     |
| RavindraJadeja  | Allrounder          | 34      | 533  | 31.35       | 15.68       | 52.91     | 41     | 24.73       | 1,572.09  | 69.25%     |
| RashidKhan      | Bowling Allrounder  | 26      | 304  | 20.27       | 11.69       | 73.68     | 46     | 28.63       | 4,594.19  | 223.26%    |
| MohammedSiraj   | Bowler              | 11      | 51   | 12.75       | 4.64        | 58.82     | 44     | 28.23       | 12,216.39 | 718.03%    |
| MohammedShami   | Bowler              | 6       | 18   | 6.00        | 3.00        | 22.22     | 47     | 29.89       | 36,652.17 | 2217.39%   |
| YuzvendraChahal | Bowler              | 4       | 15   | 15.00       | 3.75        | 0.00      | 46     | 28.98       | 22,851.43 | 1031.43%   |

**Thank you**