



INDIAN ®  
PREMIER  
LEAGUE

IPL 2021-2023:  
**Data Analysis and  
Predictions**

By Pooja Poundkar

# IPL OVERVIEW

The Indian Premier League (IPL) premier Twenty20 cricket league in India. Renowned for its high-energy matches and star-studded teams representing cities, the IPL has become a global cricketing phenomenon. With innovative formats and top international players, it blends entertainment and competition, captivating a massive fan base. The IPL has redefined modern cricket, elevating it beyond a sport to a cultural spectacle.

FIRST EDITION

2008

FORMAT

Twenty20

NUMBER OF TEAMS

TEN ( 10 )

ADMINISTRATOR

BCCI

( Board of Control for Cricket in India )

HEADQUARTERS

Cricket Centre, Churchgate,  
Mumbai, Maharashtra

# TEAM PLAYING



CHENNAI SUPER KINGS



MUMBAI INDIANS



DELHI CAPITALS



PUNJAB KINGS



GUJRAT TITANS



RAJASTHAN ROYALS



KOLKATA KNIGHT RIDERS



ROYAL CHALLENGERS  
BANGALORE



LUCKNOW SUPER GIANTS



SUNRISERS HYDERABAD

# PROBLEM STATEMENT

"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.

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

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



# OBJECTIVES

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.

# MYSQL QUERIES

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



batsmanName	total_runs
ShubmanGill	1851
FafduPlessis	1831
RuturajGaikwad	1593
KLRahul	1516
JosButtler	1509
ShikharDhawan	1392
ViratKohli	1385
SanjuSamson	1304
SuryakumarYadav	1225
GlennMaxwell	1214

- 1 Shubman Gill has performed excellently over the years and has scored the highest number of runs overall.
- 2 Faf du Plessis, Ruturaj Gaikwad, K L Rahul, and Jos Buttler have performed excellently over the past three years.

## 2. Top 10 batsmen based on past 3 years batting average. (min 60 balls faced in each season)



batsmanName	batting_avg
KLRahul	52.28
FafduPlessis	43.60
DavidMiller	43.20
JosButtler	41.92
ShimronHetmyer	40.67
ShubmanGill	40.24
ShikharDhawan	39.77
RuturajGaikwad	37.93
DavidWarner	37.90
SuryakumarYadav	35.00

1

K L Rahul leads the table with the highest batting average.

2

Faf du Plessis, David Miller, and Jos Buttler have batting averages of 40+, making them among the best batsmen in terms of averages.

### 3. Top 10 batsmen based on past 3 years strike rate. (min 60 balls faced in each season)



batsmanName	strike_rate
GlennMaxwell	161.44
SuryakumarYadav	160.55
AndreRussell	159.19
ShimronHetmyer	157.27
NicholasPooran	157.11
PrithviShaw	153.20
DineshKarthik	152.64
YashasviJaiswal	152.15
JosButtler	146.93
ShivamDube	145.95

- 1 Glenn Maxwell and Suryakumar Yadav lead the table with a strike rate exceeding 160.
- 2 Following closely behind are Andre Russell, Shimron Hetmyer and Nicholas Pooran, demonstrating similarly impressive strike rates.

#### 4. Top 10 bowlers based on past 3 years total wickets taken.



bowlerName	total_wickets
MohammedShami	67
YuzvendraChahal	66
HarshalPatel	65
RashidKhan	63
AveshKhan	47
ArshdeepSingh	45
KagisoRabada	45
VarunChakravarthy	44
ShardulThakur	43
TrentBoult	42

- 1 Mohammad Shami has taken 67 wickets, leading the table.
- 2 Yuzvendra Chahal, Harshal Patel, and Rashid Khan are among the top 10 wicket-takers.

## 5. Top 10 bowlers based on past 3 years bowling average. (min 60 balls bowled in each season)



bowlerName	bowling_avg
AndreRussell	18.23
YuzvendraChahal	20.20
HarshalPatel	20.35
RashidKhan	20.90
MohammedShami	20.97
AveshKhan	23.72
KagisoRabada	23.76
MoeenAli	23.86
AnrichNortje	24.77
UmranMalik	26.10

- 1 Andre Russell boasts an impressive bowling average of 18.23.
- 2 Y. Chahal, Harshal Patel, and Rashid Khan closely follow with bowling averages ranging from 20.20 to 20.90.

## 6. Top 10 bowlers based on past 3 years economy rate. (min 60 balls bowled in each season)



bowlerName	economy_rate
SunilNarine	6.6
MoeenAli	7.09
AxarPatel	7.11
RashidKhan	7.22
KrunalPandya	7.45
RavindraJadeja	7.46
RavichandranAshwin	7.53
VarunChakravarthy	7.58
HarpreetBrar	7.61
YuzvendraChahal	7.68

- 1 Sunil Narine maintains a commendable economy rate of 6.6.
- 2 Moeen Ali, Axar Patel and Rashid Khan closely trail with economy rates between 7.09 and 7.22.

## 7. Top 5 batsmen based on past 3 years boundary % (fours and sixes).



batsmanName	boundary_percentage
AndreRussell	75.70
YashasviJaiswal	74.56
PrithviShaw	70.67
LiamLivingstone	70.18
JosButtler	68.92

- 1 Andre Russell leads as the top batsman in boundary percentage.
- 2 Yashaswi Jaiswal, Prithvi Shaw, Liam Livingstone and Jos Buttler are close contenders.

## 8. Top 5 bowlers based on past 3 years dot ball %.



bowlerName	total_balls	dot_balls	dot_balls_percentage
PrasidhKrishna	630	302	47.94
MohammedSiraj	918	438	47.71
MohammedShami	1072	510	47.57
TrentBoult	908	421	46.37
JoshHazlewood	543	239	44.01

- 1 Prasidh Krishna emerges as the leading bowler in dot ball % among the top five.
- 2 Mohammad Siraj, Mohammed Shami, Trent Boult and Josh Hazlewood also showcase strong performances with a high rate of dot balls.

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



Team	Win_Percentage
Titans	69.70
Super Kings	55.56
Super Giants	58.62
RCB	55.56



- 1 Titans dominate with the highest winning percentage.
- 2 Super Giants follow closely behind, while both Super Kings and RCB maintain strong records, solidifying their competitive standing in recent seasons.

10. Top 2 teams with the highest number of wins achieved by chasing targets over the past 3 years.



winner	Total_wins
KKR	14
Capitals	14
Titans	14
Mumbai	13
Super Kings	11
RCB	10
Royals	9
Sunrisers	9
Punjab Kings	8
Super Giants	5



- 1 KKR, Delhi, and Titans jointly hold the top spot with 14 wins each achieved by chasing targets.
- 2 Mumbai closely trails with 13 wins in the same period.

# DASHBOARD



# IPL ANALYSIS



Batter Performance



Bowler Performance



Team Performance





# Batter Performance

Season 14

Season 15

Season 16



Winner  
Super Kings



Orange Cap  
ShubmanGill



Total Runs

65K



Total Fours

5702

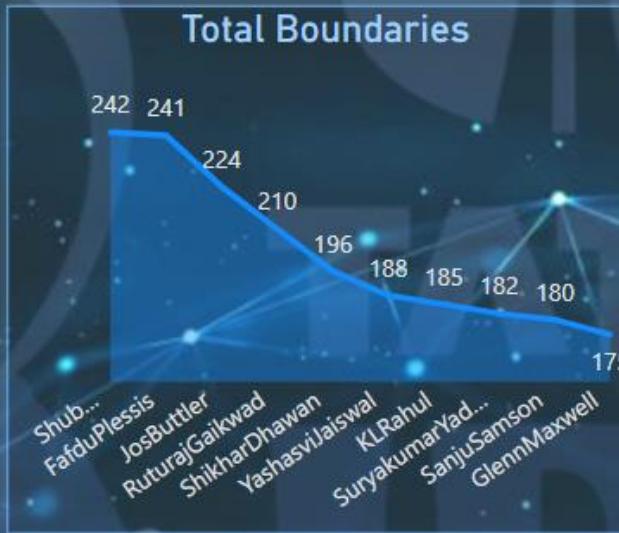


Total Sixes

2861



Batsman Name	
ViratKohli	
Total Runs	1385
Strike Rate	105.67
Innings	45
Highest Score	101



batsmanName	50s	100s	Total Runs	Avg_SR	4s	6s	Duck
ShubmanGill	11	3	1851	120.90	186	56	4
FafduPlessis	17	0	1831	125.11	169	72	4
RuturajGaikwad	11	1	1593	115.73	143	67	2
KLRahul	12	2	1516	109.05	121	64	4
JosButtler	8	5	1509	115.15	152	72	5
ShikharDhawan	9	0	1392	115.92	156	40	1
ViratKohli	11	2	1385	105.67	140	33	4
SanjuSamson	7	1	1304	125.96	113	67	2
SuryakumarYadav	10	1	1225	138.76	128	54	2
GlennMaxwell	12	0	1214	150.50	108	67	4

Best Batting Innings				
Batsman	High Score	SR	Year	Team
QuintondeKock	140	200.0	2022	Super Giants
ShubmanGill	129	215.0	2023	Titans
JosButtler	124	193.8	2021	Royals
YashasviJaiswal	124	200.0	2023	Royals
SanjuSamson	119	188.9	2021	Royals
JosButtler	116	178.5	2022	Royals
RajatPatidar	112	207.4	2022	RCB
JosButtler	106	176.7	2022	Royals





# Bowler Performance

Season 14

Season 15

Season 16



Winner  
Super Kings



Purple Cap  
HarshalPat...



Total Runs  
67K



Total Wickets  
2360



Duck Balls  
18K

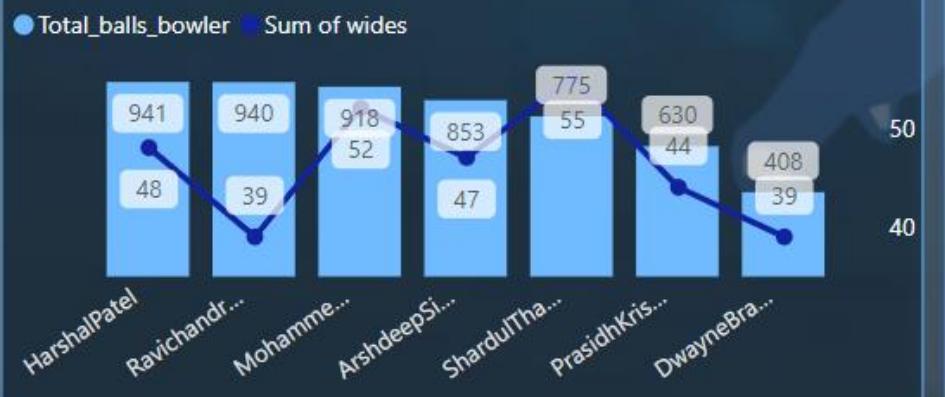


Bowler Name
YuzvendraChahal
Total Wickets
66
Total Innings
46
Economy Rate
7.74
Dot Balls %
34.61%

## Bowlers with Total Balls and Total Wickets

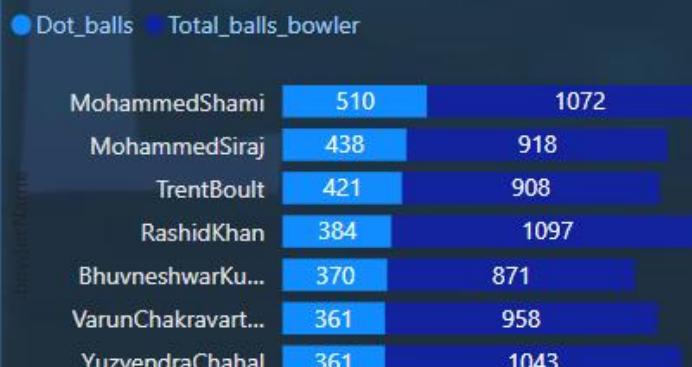


## Bowlers with Total Balls and Total Wides Balls



bowlerName	Overs	Wickets	Dot_balls	Avg	Economy
MohammedShami	178.4	67	510	20.97	7.92
YuzvendraChahal	173.5	66	361	20.20	7.74
HarshalPatel	155.7	65	339	20.35	8.47
RashidKhan	182.5	63	384	20.90	7.24
AveshKhan	133.4	47	334	23.72	8.48
ArshdeepSingh	141.3	45	312	27.11	8.70
KagisoRabada	124.0	45	323	23.76	8.66
VarunChakravarthy	159.4	44	361	27.48	7.78
ShardulThakur	127.9	43	280	28.37	9.85
TrentBoult	150.8	42	421	28.81	8.06

## Top 10 Bowlers by Dot Balls and Total Balls





# Team Performance

Season 14

Season 15

Season 16

Capitals

KKR

Mumbai

Punjab  
Kings

RCB

Royals

Sunrisers

Super  
GiantsSuper  
Kings

Titans



**Winner**  
**Super Kings**



**Purple Cap**  
HarshalPat...



**Orange Cap**  
ShubmanGill

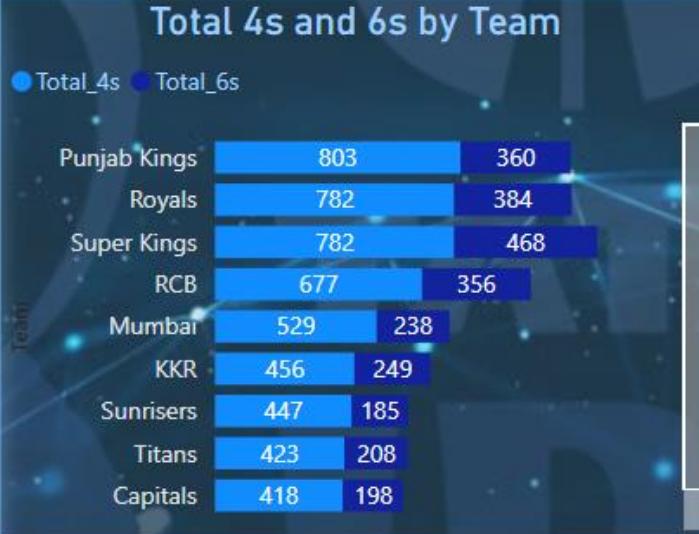


**Total Runs**  
**65K**

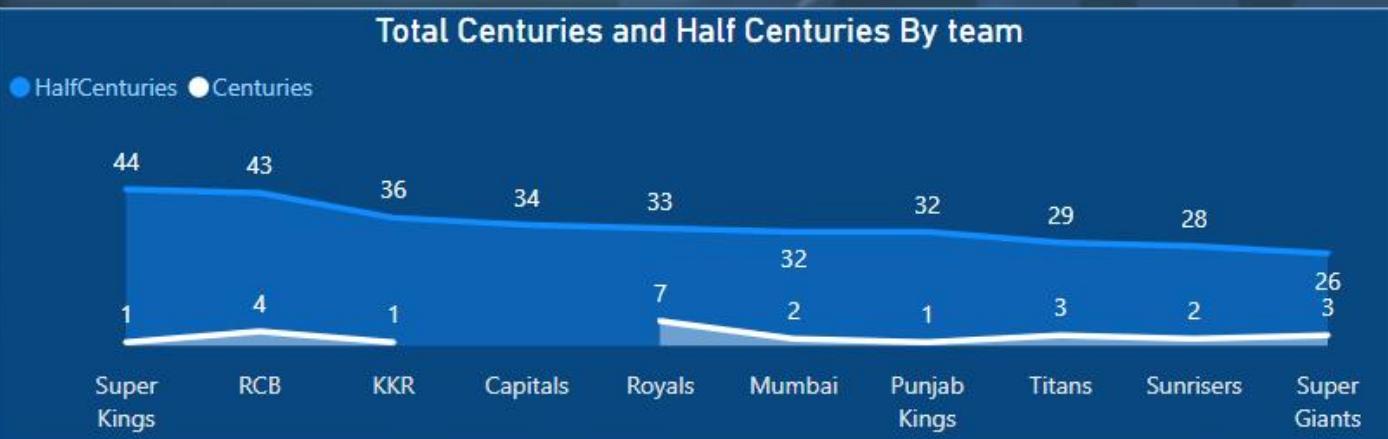


**Total Wickets**  
**2360**

Team	Matches	Total_Wins	Wins%
Titans	33	23	69.70
Super Giants	29	17	58.62
RCB	45	25	55.56
Super Kings	45	25	55.56
Royals	45	22	48.89
Capitals	43	21	48.84
KKR	45	21	46.67
Mumbai	44	20	45.45
Punjab Kings	42	19	45.24
Sunrisers	41	13	31.71



Team	Total Overs	Total_wickets	Total Maiden	NoBalls
Capitals	851.7	253	9	25
KKR	864.6	253	3	48
Mumbai	845.5	245	5	26
Punjab Kings	795.0	222	4	22
RCB	847.1	270	9	32
Royals	862.6	237	10	25
Sunrisers	795.6	219	7	23
Super Giants	572.1	181	6	15
Super Kings	869.6	272	5	20
Titans	636.1	208	2	11



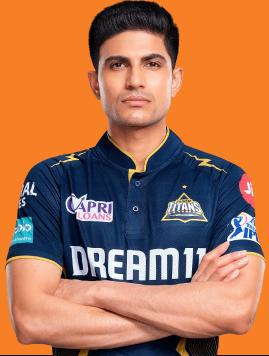
# PREDICTION :

## ORANGE CAP

VIRAT KOHLI



SHUBMAN GILL



RUTURAJ G.



Y. JAISWAL



## PURPLE CAP

J. BUMRAH



MOHIT SHARMA



M. RAHMAN



Y. CHAHAL



# PREDICTION :

TOP 4 QUALIFYING TEAMS



WINNER

RUNNER-UP



# BEST 11 TEAM

CAPTAIN

ROHIT SHARMA

Total Innings : 43  
Total Runs : 981  
SR : 108.34



BATSMAN

VIRAT KOHLI

Total Innings : 45  
Total Runs : 1385  
SR : 105.67



BATSMAN

S. YADAV

Total Innings : 38  
Total Runs : 1225  
SR : 138.76



BATSMAN

FAF DU PLESSIS

Total Innings : 46  
Total Runs : 1831  
SR : 125.11



WICKET-KEEPER

M.S.DHONI

Total Innings : 36  
Total Runs : 450  
SR : 131.08



ALL-ROUNDER

RASHID KH.

Total Innings : 46  
Total Runs : 304  
Total wickets : 63



ALL-ROUNDER

A.RUSSELL

Total Innings : 35  
Total Runs : 745  
Total wickets : 35



BOWLER

M. SHAMI

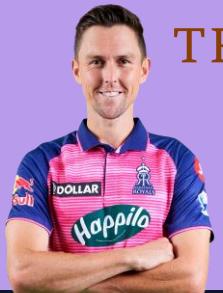
Total Innings : 47  
Total wickets : 67  
Economy RT: 7.92



BOWLER

TRENT BOULT

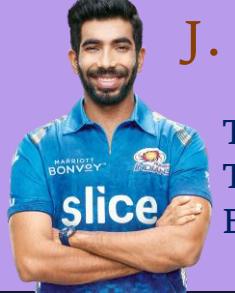
Total Innings : 40  
Total wickets : 42  
Economy RT: 8.06



BOWLER

J. BUMRAH

Total Innings : 28  
Total wickets : 36  
Economy RT: 7.33



BOWLER

Y. CHAHAL

Total Innings : 46  
Total wickets : 66  
Economy RT: 7.74



**THANK  
YOU!**