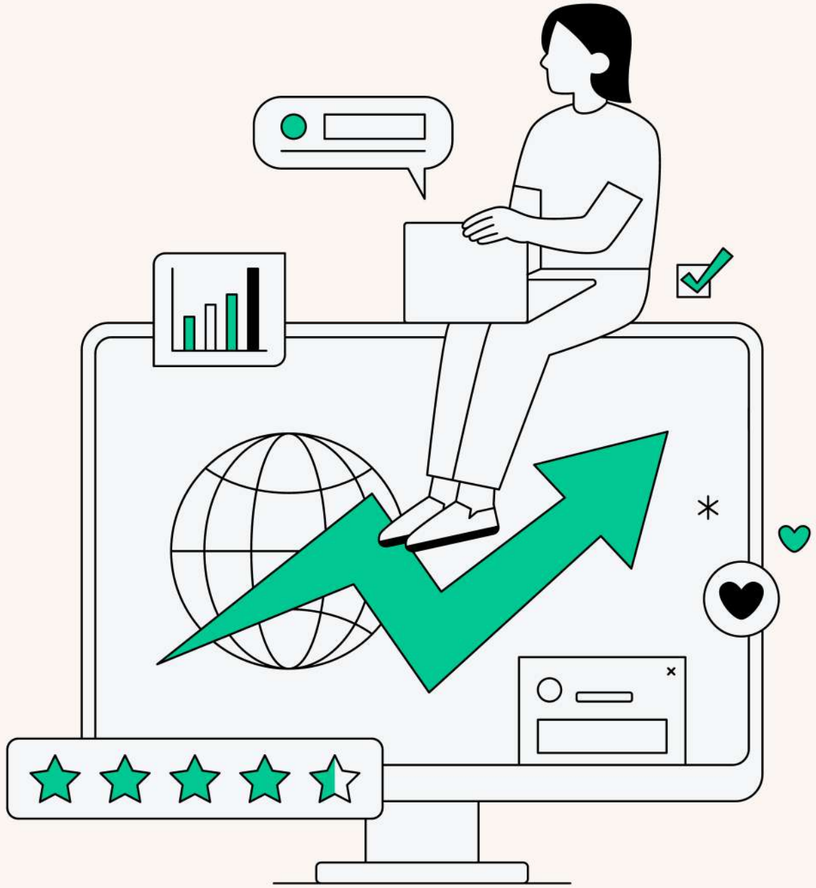
IPL Data Analysis Using PowerBI



Presented by Jani Revathi

Introduction

The goal of this Power BI project is to analyse IPL (Indian Premier League) cricket data to gain insights into team and player performance, match outcomes, and various key metrics related to both batting and bowling. The analysis will be carried out using data from multiple related tables, providing a comprehensive view of the tournament's dynamics.

Dataset

Fact Bowling

match_id: Unique identifier for the match.
match: Description or name of the match.
bowlingTeam: Name of the team that is bowling.
bowlerName: Name of the bowler.
overs: Number of overs bowled by the bowler.
maiden: Number of maiden overs bowled.
runs: Runs conceded by the bowler.
wickets: Wickets taken by the bowler.
economy: Economy rate of the bowler.
0s: Number of dot balls bowled.
4s: Number of fours conceded.
6s: Number of sixes conceded.
wides: Number of wide balls bowled.
noBalls: Number of no balls bowled.

Fact Batting Summary

match_id: Unique identifier for the match.
match: Description or name of the match.
teamInnings: The team batting in the innings.
battingPos: Batting position of the player.
batsmanName: Name of the batsman.
out/not_out: Whether the batsman was out or not out.
runs: Runs scored by the batsman.
balls: Balls faced by the batsman.
4s: Number of fours hit.
6s: Number of sixes hit.
SR: Strike rate of the batsman.

Dataset

Dim Player

name: Name of the player.
team: Team the player belongs to.
battingStyle: Batting style of the player (e.g., Right-hand bat).
bowlingStyle: Bowling style of the player (e.g., Right-arm fast).
playingRole: Role of the player (e.g., Batsman, Bowler).

Dim Match Summary

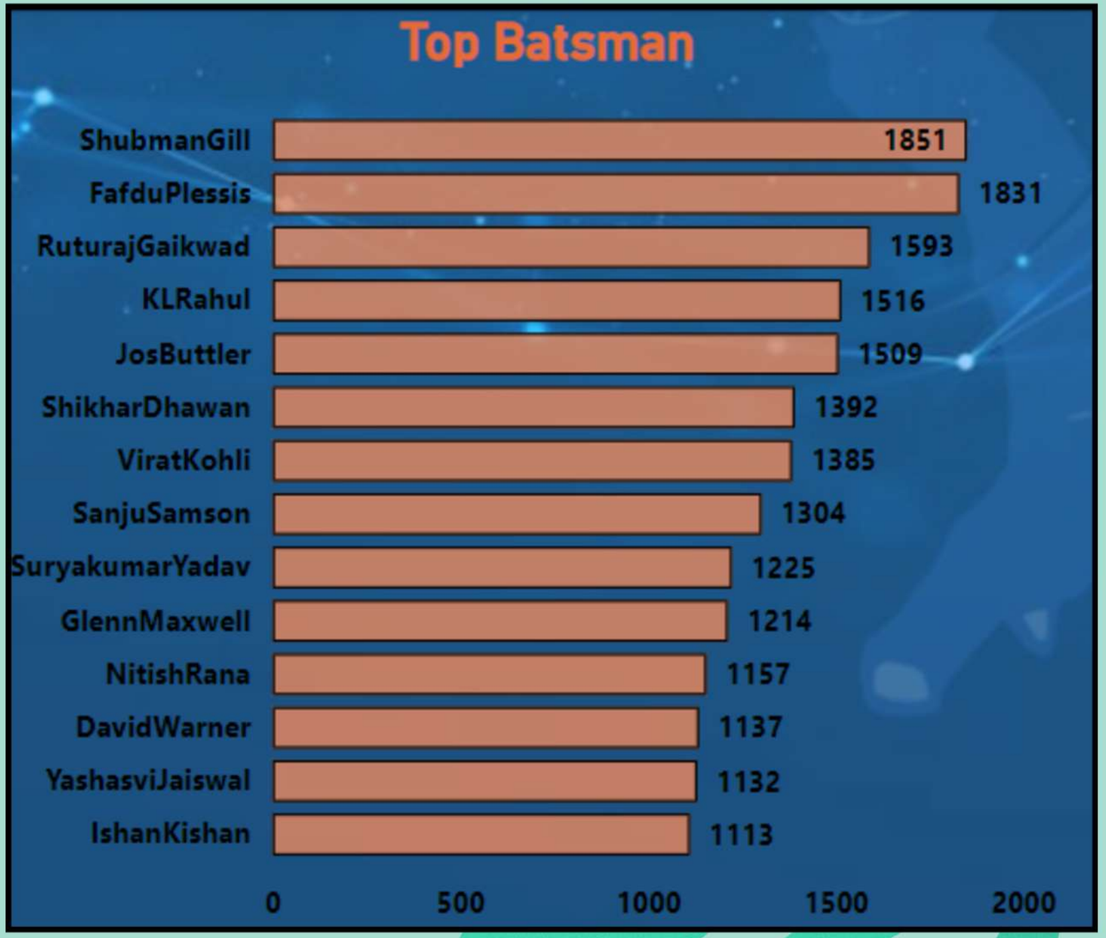
team1: Name of the first team.
team2: Name of the second team.
winner: Winner of the match.
margin: Margin of victory.
matchDate: Date of the match.
match_id: Unique identifier for the match.

Top Batsman

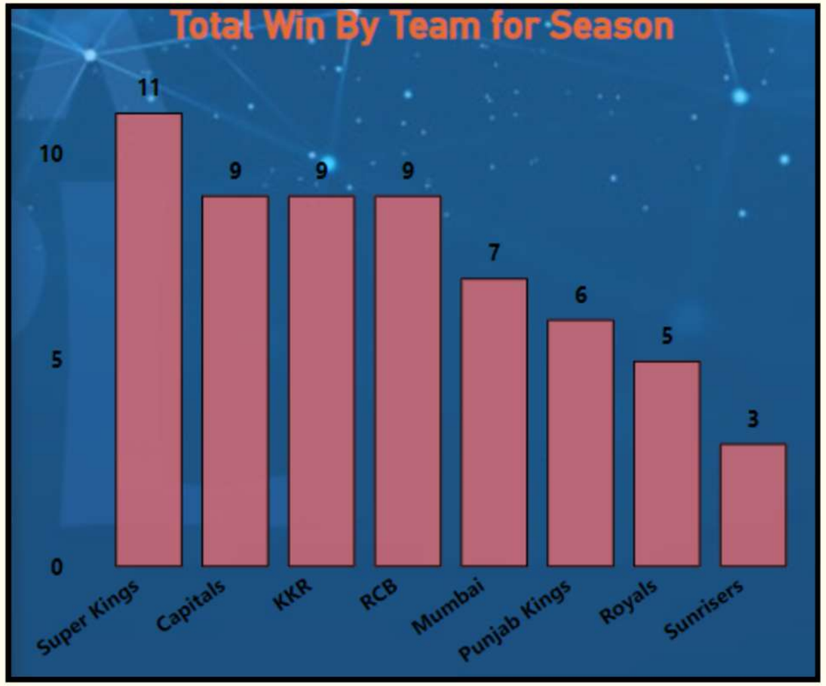
- The IPL Data Analysis dashboard highlights the exceptional performances of the top batsmen in the league, showcasing their impressive run-scoring abilities.

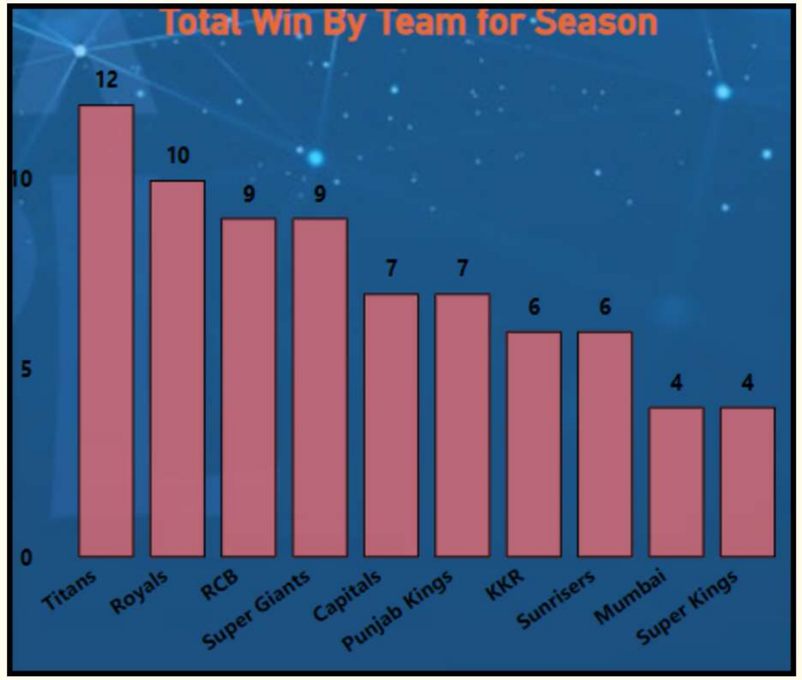
- Leading the pack is Shubman Gill, who amassed a remarkable 1,851 runs, demonstrating his consistency and prowess at the crease.

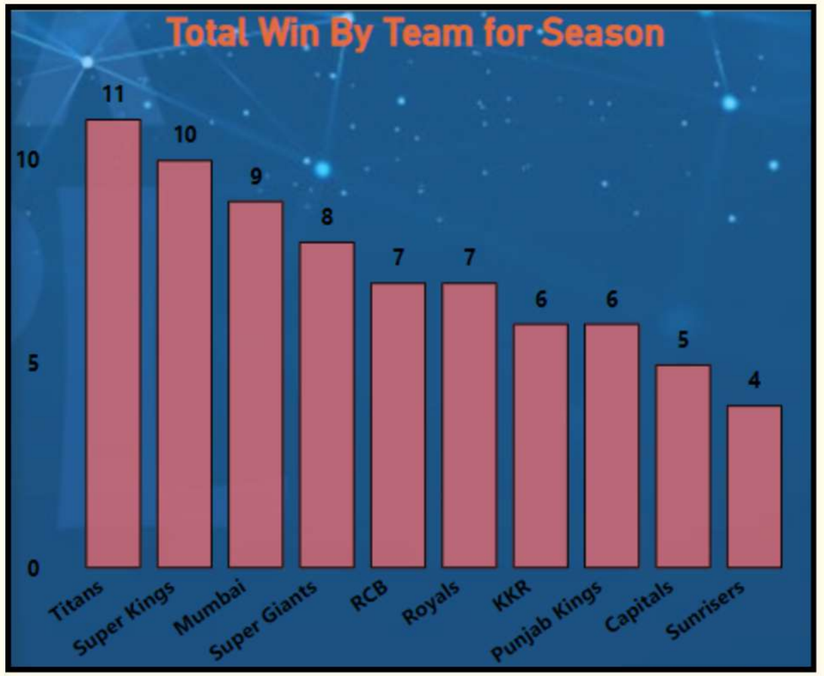
- Closely following him is Faf du Plessis, with an impressive 1831 runs, underscoring his vital role as a top-order batsman.



Total Wins Based Upon Year





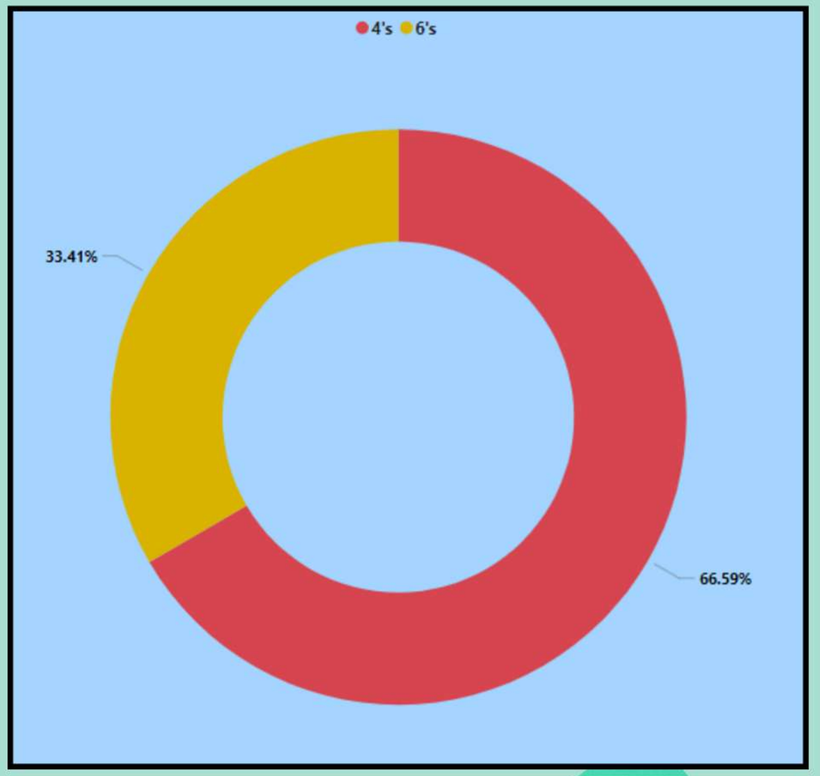


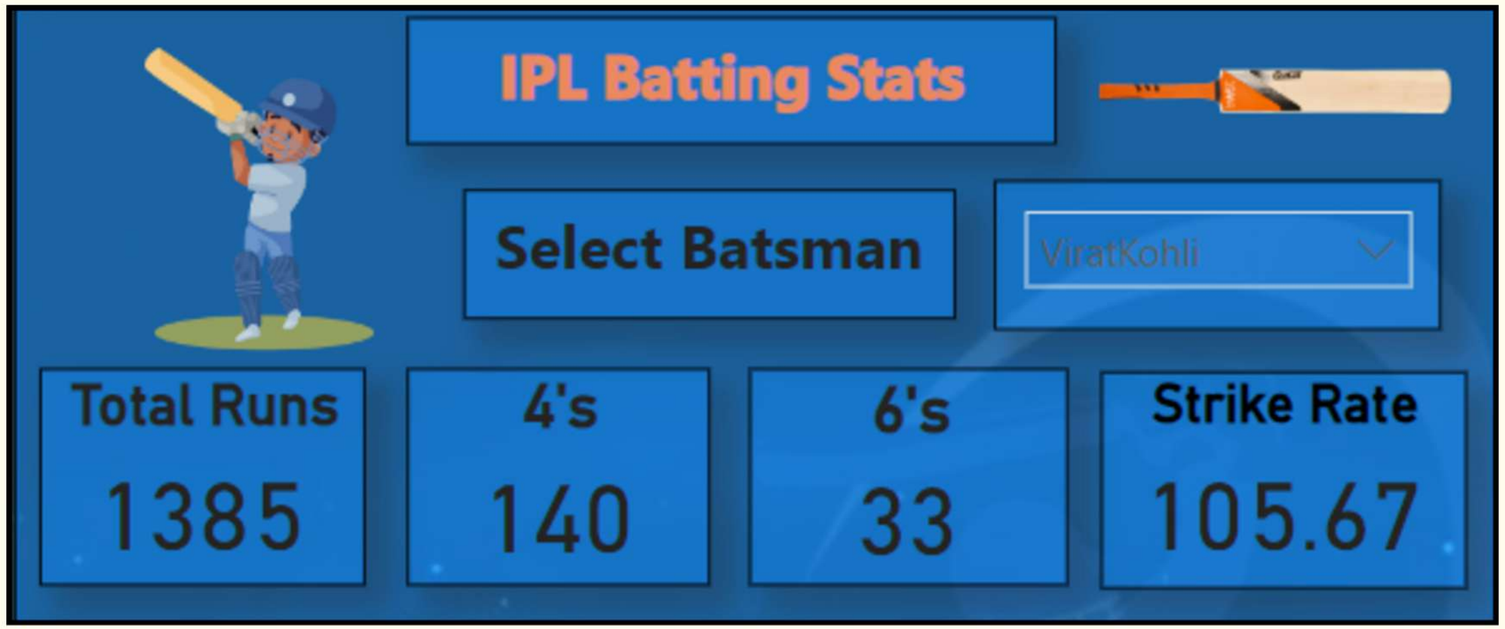
2021 2022 2023

Leading the tally are the Royal Challengers Bangalore (RCB) and the Super Kings, each securing an impressive 25 wins.

Matches Win by 4’s and 6’s

- The distribution between 4's and 6's illustrates a balanced approach in the IPL, where batsmen have effectively combined safe boundary hitting with aggressive, power-packed shots.
- While the majority of scoring came from 4's, the substantial proportion of 6's reflects the importance of power hitting in the modern T20 game, enabling teams to capitalize on scoring opportunities and maintain a high run rate.





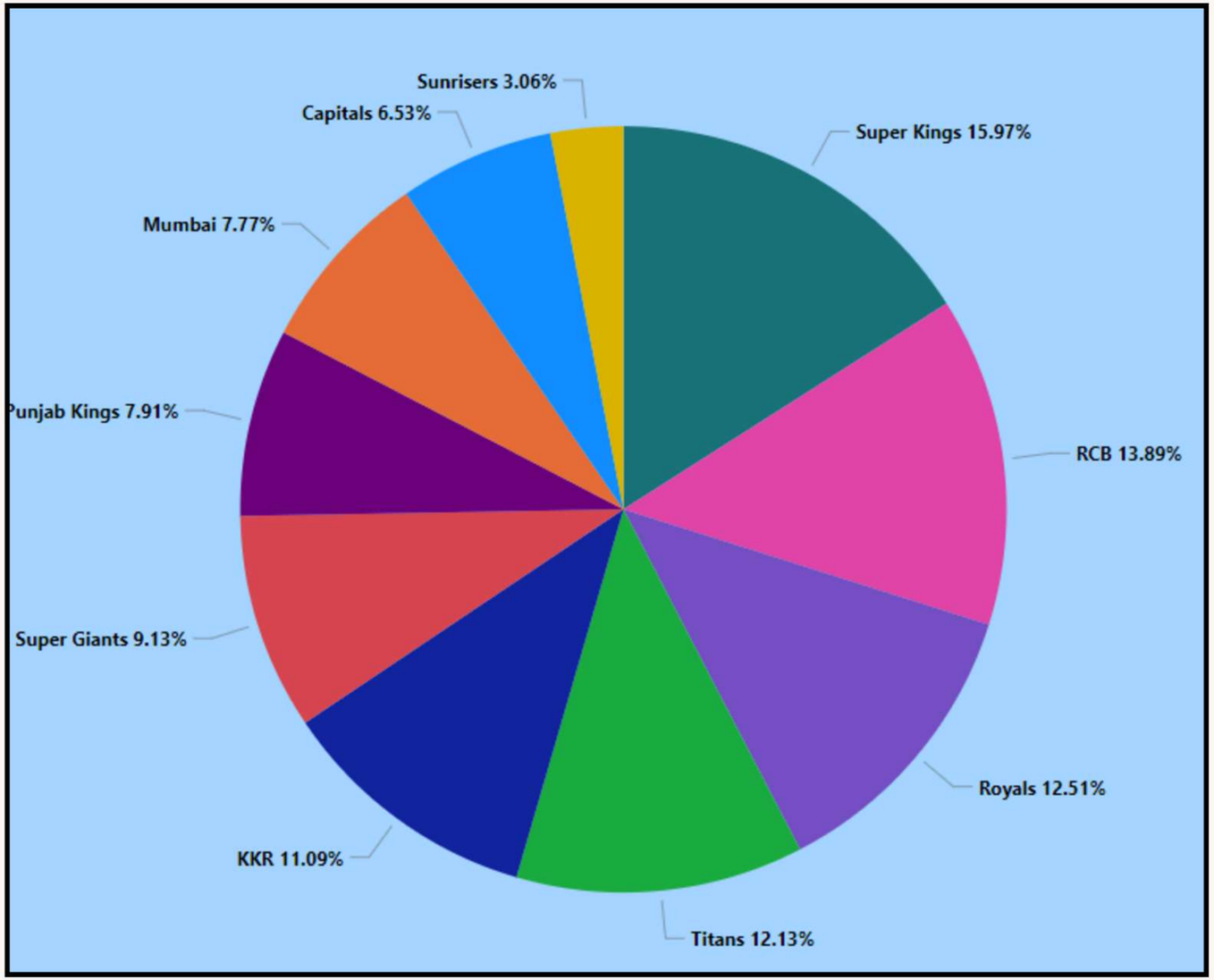
BEST BATSMAN

BEST BOWLER

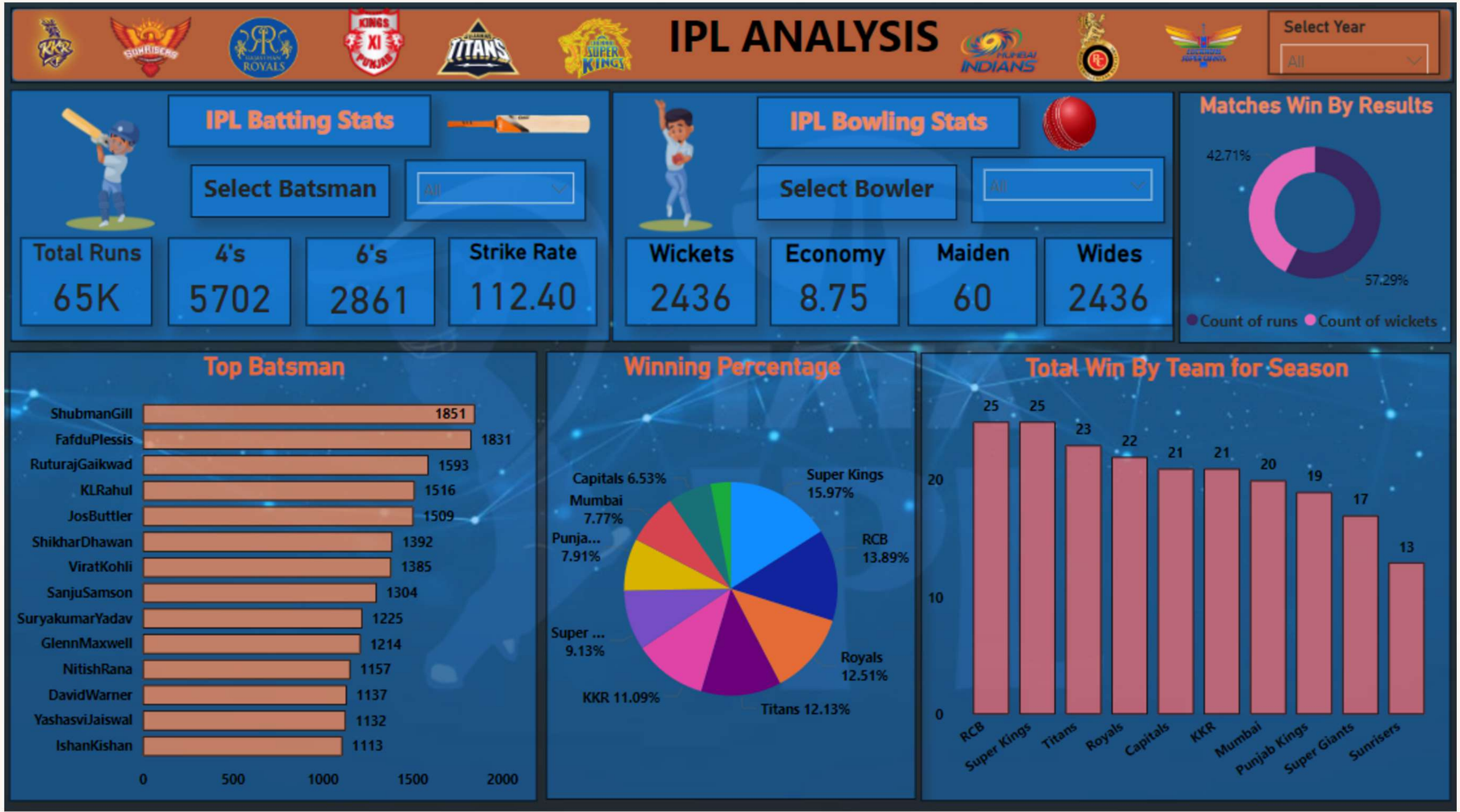
Winning Percentage by Team

- Leading the chart are the Super Kings, with a commanding winning percentage of 15.97%. This statistic underscores their consistent excellence and strategic superiority, making them a formidable force in the league.

- These winning percentages provide highlight the strengths and areas where each team has excelled, offering valuable insights for fans, analysts, and the teams themselves as they prepare for future competitions.



FDASHBOARD


IPL ANALYSIS
Select Year
All
IPL Batting Stats
Select Batsman
All
Total Runs
65K
4's
5702
6's
2861
Strike Rate
112.40
IPL Bowling Stats
Select Bowler
All
Wickets
2436
Economy
8.75
Maiden
60
Wides
2436
Matches Win By Results
42.71%
57.29%
Count of runs
Count of wickets
Top Batsman
ShubmanGill 1851
FafduPlessis 1831
RuturajGaikwad 1593
KLRahul 1516
JosButtler 1509
ShikharDhawan 1392
ViratKohli 1385
SanjuSamson 1304
SuryakumarYadav 1225
GlennMaxwell 1214
NitishRana 1157
DavidWarner 1137
YashasviJaiswal 1132
IshanKishan 1113
0
500
1000
1500
2000
Winning Percentage
Capitals 6.53%
Super Kings 15.97%
Mumbai 7.77%
Punja... 7.91%
RCB 13.89%
Super ... 9.13%
Royals 12.51%
KKR 11.09%
Titans 12.13%
Total Win By Team for Season
25
25
23
22
21
21
20
19
17
13
20
10
0
RCB
Super Kings
Titans
Royals
Capitals
KKR
Mumbai
Punjab Kings
Super Giants
Sunrisers

DASHBOARD

IPL ANALYSIS

Select Year: All

Bowling Statistics

match_id	bowlingTeam	bowlerName	bowlingStyle	wickets	wides	NoBalls	Economy
T203087	Mumbai	JaspritBumrah	Right arm Fast	5	0	0	2.50
T203496	Titans	MohitSharma	Right arm Medium	5	0	0	4.28
T203571	Mumbai	AkashMadhwal	Right arm Medium fast	5	0	0	1.42
T203784	RCB	HarshalPatel	Right arm Medium	5	0	1	6.75
T206892	Royals	YuzvendraChahal	Legbreak Googly	5	4	0	10.00
T207464	RCB	WaninduHasaranga	Legbreak	5	0	0	4.50
T207857	Punjab Kings	ArshdeepSingh	Left arm Medium fast	5	3	0	8.00
T208512	Super Giants	MarkWood	Right arm Fast	5	1	1	3.50
T208692	Sunrisers	BhuvneshwarKumar	Right arm Medium	5	0	0	7.50
T209115	Sunrisers	UmranMalik	Right arm Fast	5	1	0	6.25

Runs and Wickets Based on Teams

Sum of Wickets and wides by Bowlers

Batting Statistics

match_id	team1	team2	winner	Year	batsmanName	4's	6's	Balls	Runs	Strike Rate
T201082	Capitals	Punjab Kings	Capitals	2023	AtharvaTaide	5	2	42	55	130.95
T201082	Capitals	Punjab Kings	Capitals	2023	DavidWarner	5	2	31	46	148.38
T201082	Capitals	Punjab Kings	Capitals	2023	HarpreetBrar	0	0	1	0	0.00
T201082	Capitals	Punjab Kings	Capitals	2023	JiteshSharma	0	0	3	0	0.00
T201082	Capitals	Punjab Kings	Capitals	2023	LiamLivingstone	5	9	48	94	195.83
T201082	Capitals	Punjab Kings	Capitals	2023	MShahrukhKhan	0	1	3	6	200.00
T201082	Capitals	Punjab Kings	Capitals	2023	PhilSalt	2	2	14	26	185.71
T201082	Capitals	Punjab Kings	Capitals	2023	PrabhsimranSingh	4	0	19	22	115.78
T201082	Capitals	Punjab Kings	Capitals	2023	PrithviShaw	7	1	38	54	142.10
T201082	Capitals	Punjab Kings	Capitals	2023	RahulChahar	0	0	0	0	0.00
T201082	Capitals	Punjab Kings	Capitals	2023	RileeRossouw	6	6	37	82	221.62
T201082	Capitals	Punjab Kings	Capitals	2023	SamCurran	1	1	5	11	220.00
T201082	Capitals	Punjab Kings	Capitals	2023	ShikharDhawan	0	0	1	0	0.00
T201248	Capitals	Sunrisers	Capitals	2022	AbhishekSharma	1	0	6	7	116.66

Thank You