

IPL InsightX

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What is IPL

Indian Premier League

The Indian Premier League (IPL) is a professional Twenty20 (T20) cricket league in India, organized by the Board of Control for Cricket in India (BCCI). It is one of the most popular and richest cricket leagues in the world.

Known for its high entertainment value, it combines thrilling T20 matches with celebrity involvement and major brand sponsorships. With a massive fan following and extensive media coverage worldwide, IPL has become more than just a cricket tournament—it's a global sports and entertainment phenomenon.



About IPL InsightX

IPL InsightX is a Tableau-based tool analyzing IPL data (2008-2023) through five key dashboards: player and team-level batsman and bowler stats, along with venue insights. It provides in-depth performance breakdowns by season, opposition, venue, match phases, and player and team rivalries.

Key Components

- **Batsman Stats (Player Level):** Performance by season, opposition, venue, phase (powerplay, middle, death), and rival bowlers.
- **Batsman Stats (Team Level):** Aggregated team-level batting performance analysis.
- **Bowler Stats (Player Level):** Performance by season, opposition, venue, phase (powerplay, middle, death), and rival batsmen.
- **Bowler Stats (Team Level):** Aggregated team-level bowling performance analysis.
- **Venue Stats:** Toss insights, average totals, and win distribution by toss decisions season-wise.



Who can use it?

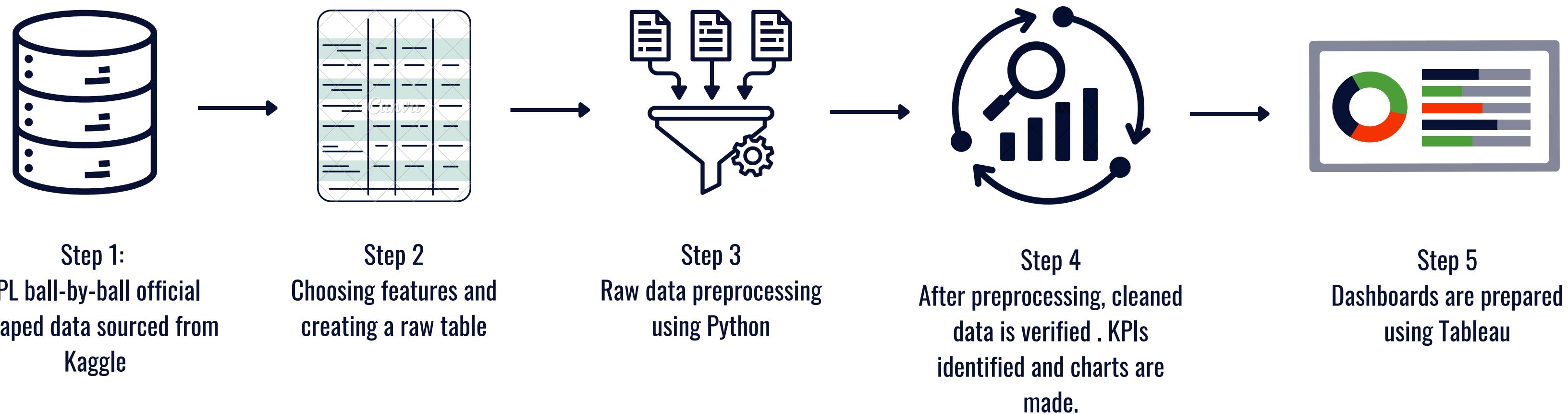
From strategy to selection, empowering every stakeholder in the game.

- Coaches – Evaluate player performances and refine game strategies.
- Players – Identify strengths, weaknesses, and areas for improvement.
- Team Management – Analyze team trends to optimize performance.
- Auction Participants – Make data-driven player selection decisions.
- Cricket Analysts – Gain deeper insights into individual and team performance.
- Cricket Enthusiasts – Explore in-depth stats to enhance their understanding of the game.



Methodology

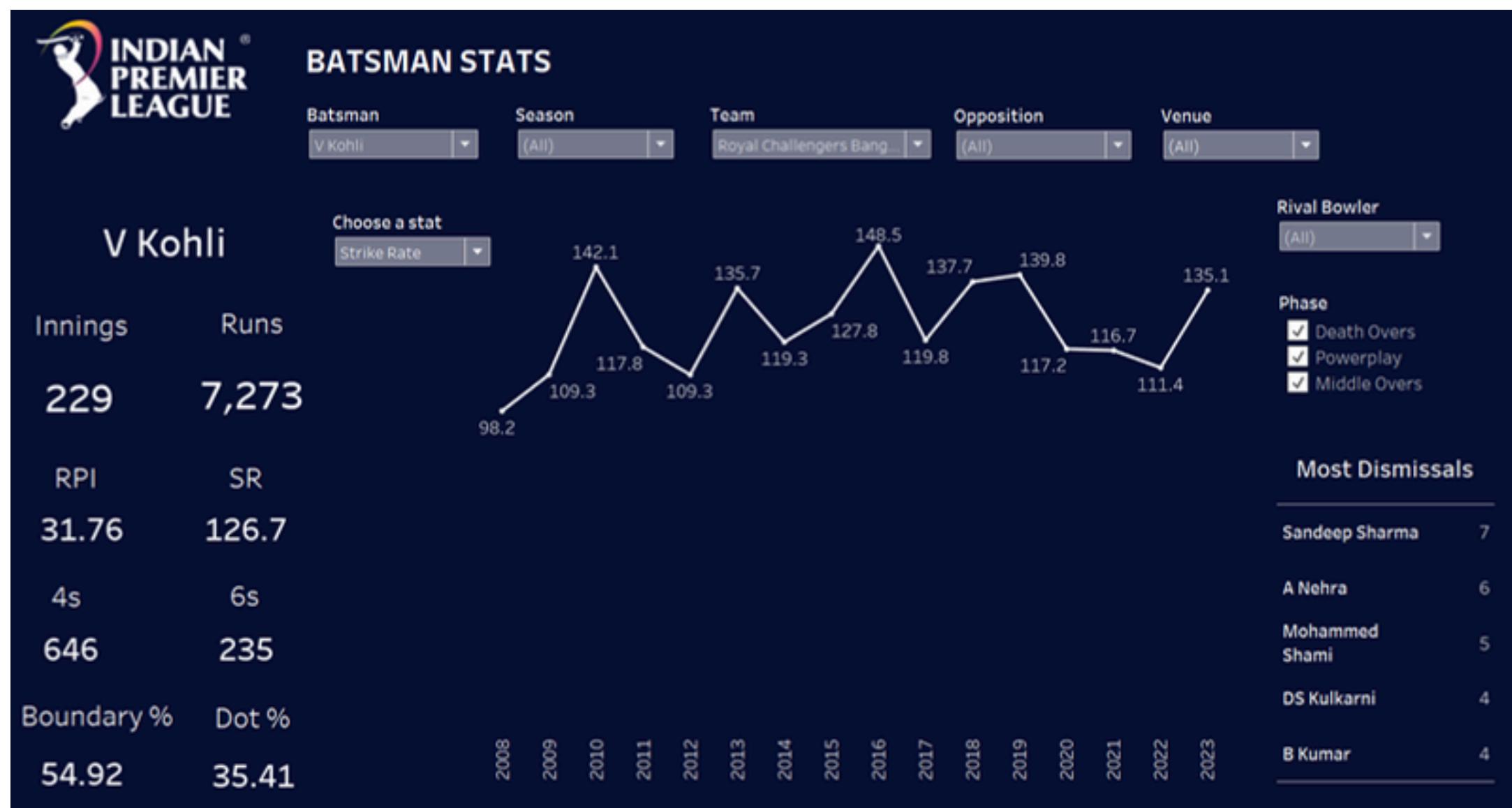
Following flowchart shows the step-wise approach to create this tool.



Components

Dashboard 1: Batsman Stats (Player level)

Shows the performance of each batsman season-wise, opposition-wise, venue-wise, phase-wise (powerplay, middle overs or death overs), and rival bowler-wise.



Components

Dashboard 2: Batsman Stats (Team level)

Shows the performance of each batsman at team level. Useful for seeing stats by considering team as a whole unit.



TEAM WISE STATS

Season: 2016 | Team: Kolkata Knight Riders | Opposition: (All)

Batsman	Innings	Runs ^r	RPI	Strike Rate	4s	6s	Dot Ball %	Boundary %
G Gambhir	15	501	33.4	118.2	54	6	35.1	50.3
RV Uthappa	15	394	26.3	131.3	45	8	35.7	57.9
YK Pathan	13	361	27.8	141.0	33	13	28.9	58.2
MK Pandey	11	248	22.5	130.5	17	9	28.4	49.2
AD Russell	8	188	23.5	150.4	10	15	40.8	69.1
SA Yadav	11	182	16.5	123.0	18	5	35.8	56.0
Shakib Al Hasan	7	114	16.3	105.6	7	5	40.7	50.9
C Munro	3	30	10.0	96.8	3	0	41.9	40.0
PP Chawla	3	27	9.0	103.8	4	0	50.0	59.3
CA Lynn	2	25	12.5	108.7	0	1	39.1	24.0
R Sathish	3	24	8.0	100.0	1	1	41.7	41.7
JO Holder	4	22	5.5	110.0	2	1	55.0	63.6
UT Yadav	2	9	4.5	150.0	0	1	33.3	66.7
SP Narine	3	7	2.3	50.0	0	0	57.1	0.0
MMorkel	1	1	1.0	100.0	0	0	0.0	0.0

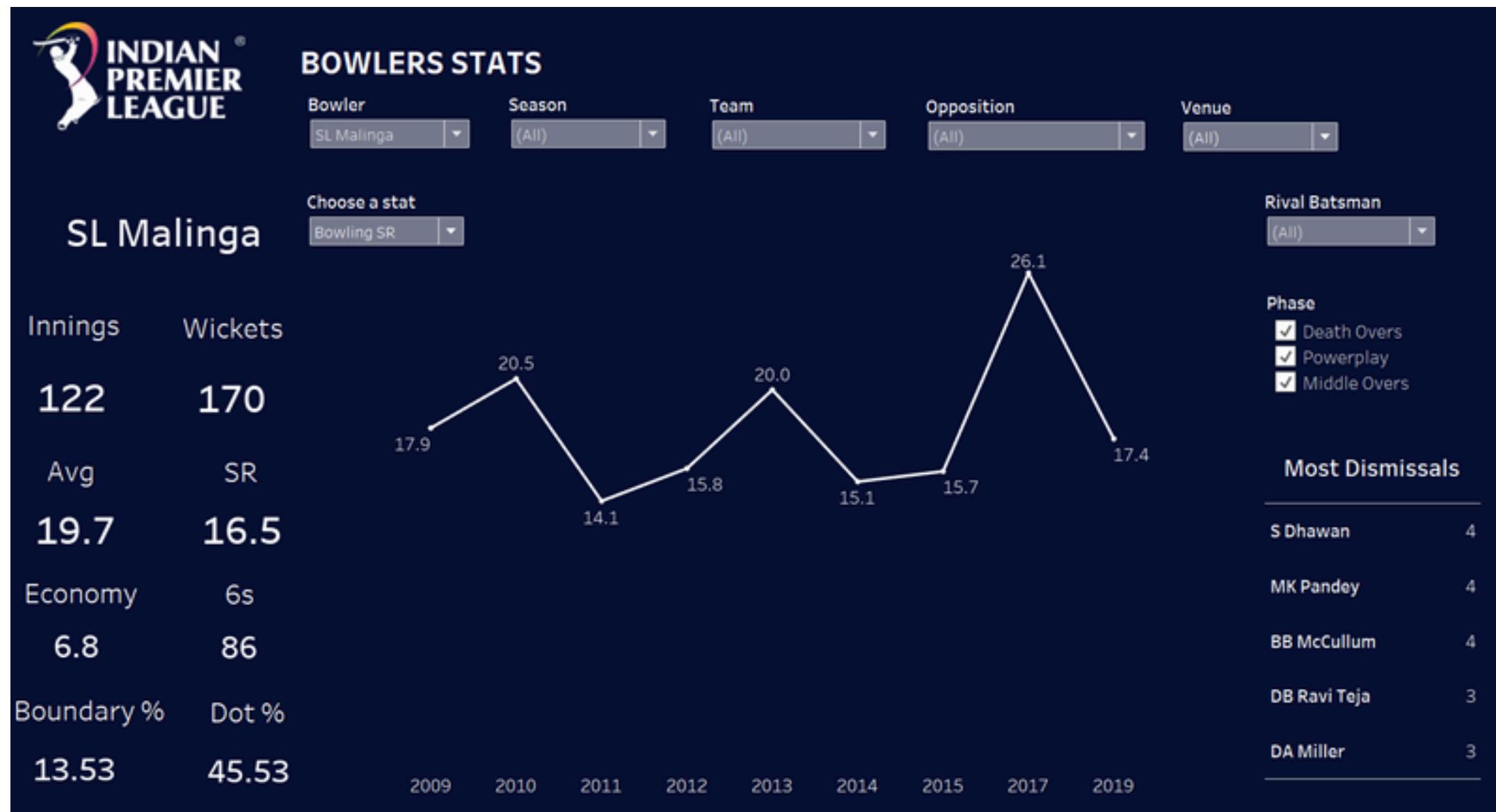
Phase: Death Overs
 Powerplay
 Middle Overs



Components

Dashboard 3: Bowler Stats (Player level)

Shows the performance of each bowler season-wise, opposition-wise, venue-wise, phase-wise (powerplay, middle overs or death overs). Also, shows player rivalries.



Components

Dashboard 4: Bowler Stats (Team level)

Shows the performance of each bowler at team level. Useful for seeing stats by considering team as a whole unit.



TEAM WISE STATS

Season: 2020 | Team: Mumbai Indians | Rival: (All) | Phase: Death Overs, Powerplay, Middle Overs

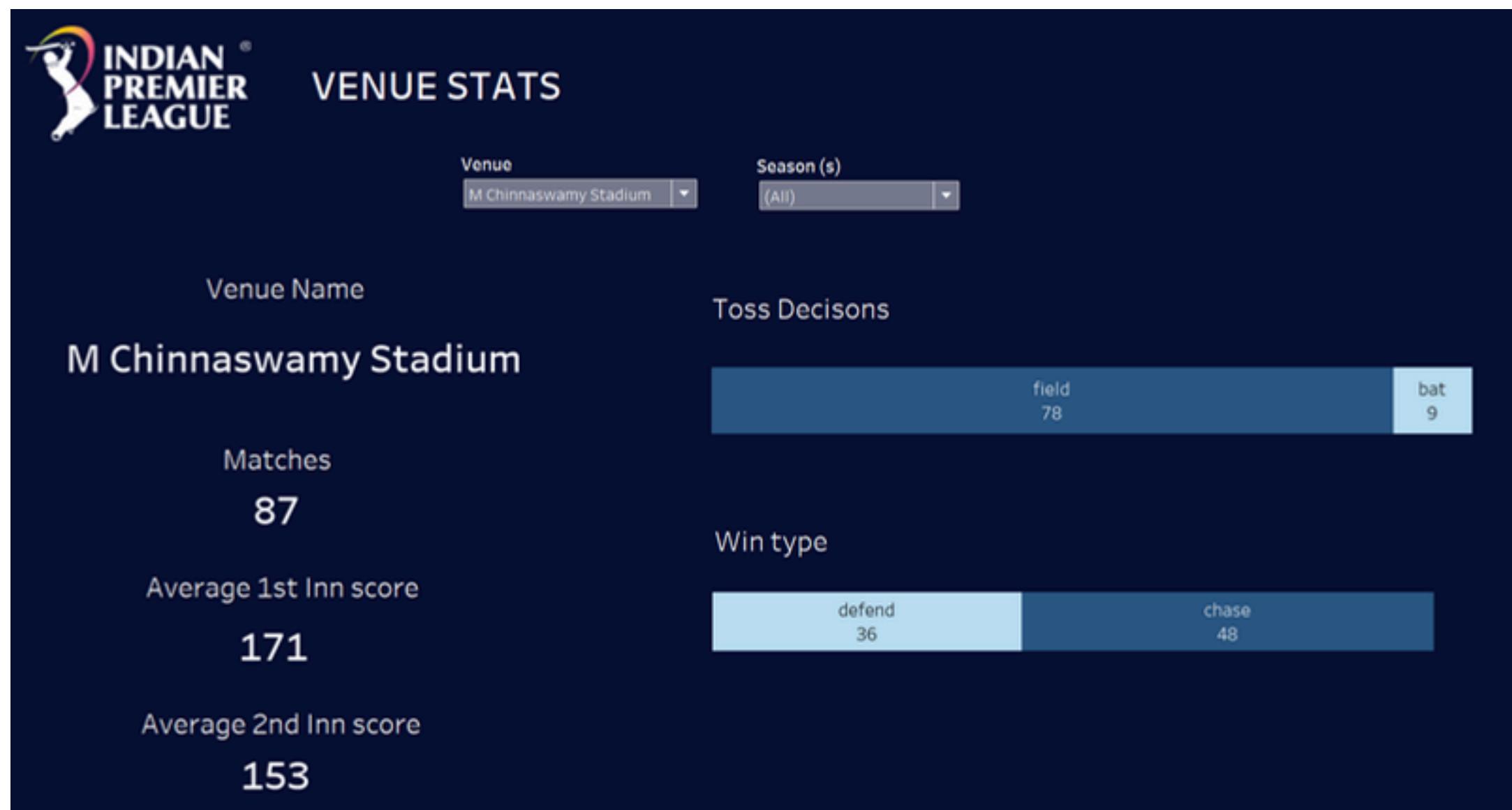
Bowler	Innings	Wickets	Average	Economy	Bowling SR	Dot Ball %	Boundary %	Wide	Noball	Phase
JJ Bumrah	15	29	14.48	6.58	13.21	49.09	13.58	11	1	<input checked="" type="checkbox"/> Death Overs
TA Boult	15	25	18.84	8.01	14.12	46.18	22.10	6	0	<input checked="" type="checkbox"/> Powerplay
RD Chahar	15	15	28.80	8.05	21.47	33.85	15.22	5	0	<input checked="" type="checkbox"/> Middle Overs
JL Pattinson	10	11	29.09	8.65	20.18	39.19	19.82	9	0	
KH Pandya	16	6	63.33	7.24	52.50	36.19	12.06	20	0	
NM Coulter-Nile	7	5	41.00	7.50	32.80	47.56	15.85	11	0	
KA Pollard	11	4	47.50	8.26	34.50	32.61	14.49	12	0	
J Yadav	2	1	43.00	6.14	42.00	30.95	4.76	0	0	
DS Kulkarni	1	0		6.60		40.00	10.00	2	0	



Components

Dashboard 5: Venue Stats

Shows toss insights, average batting total, win distribution by toss decisions season-wise.

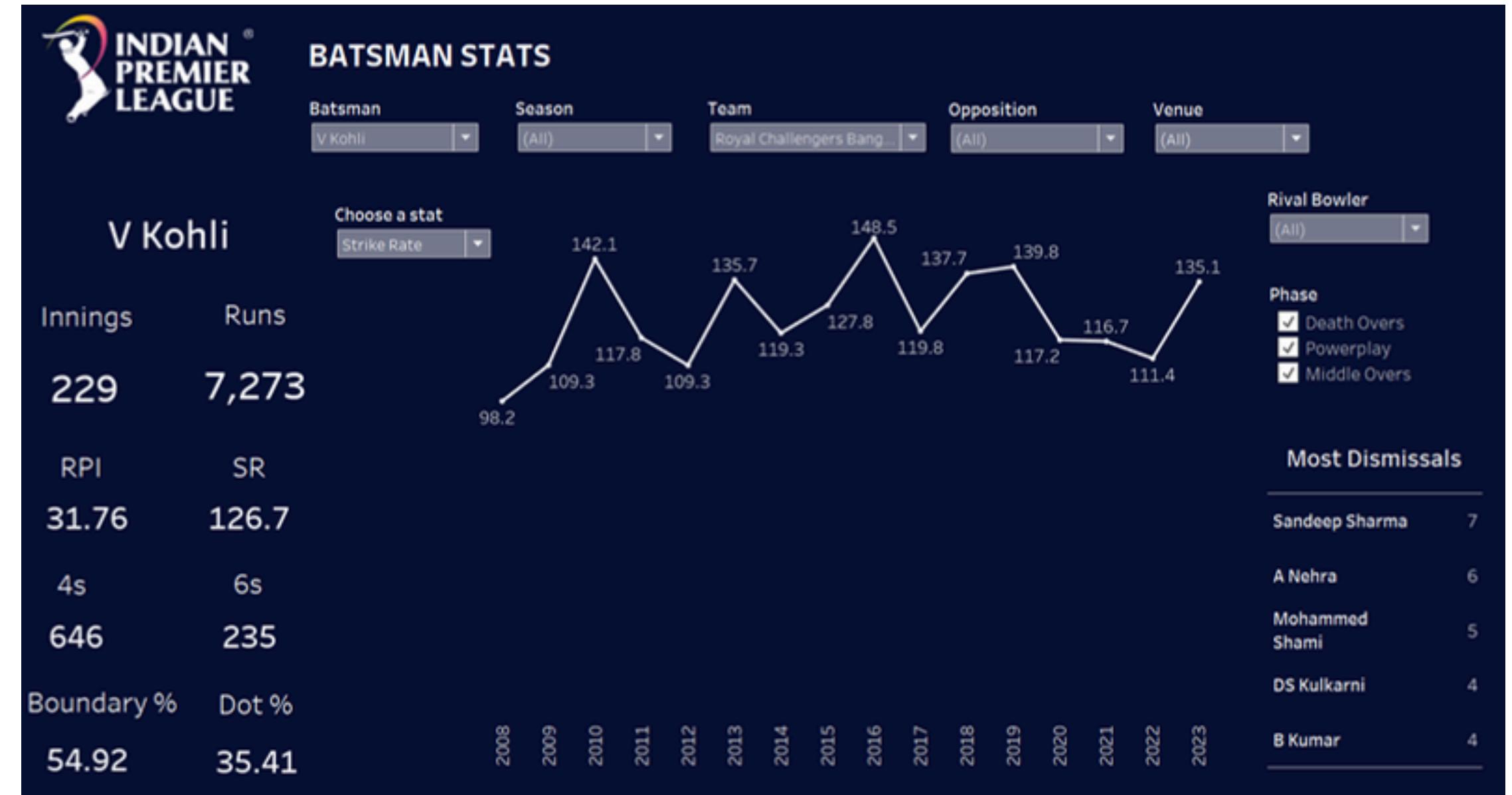


Use Cases

Use Case 1: A specific batsman profile over seasons

Selected Player: Virat Kohli
Seasons: 2008-2023

Based on this, user can see all the indicators for selected player and its progress over time at any level of detail you want



Use Cases

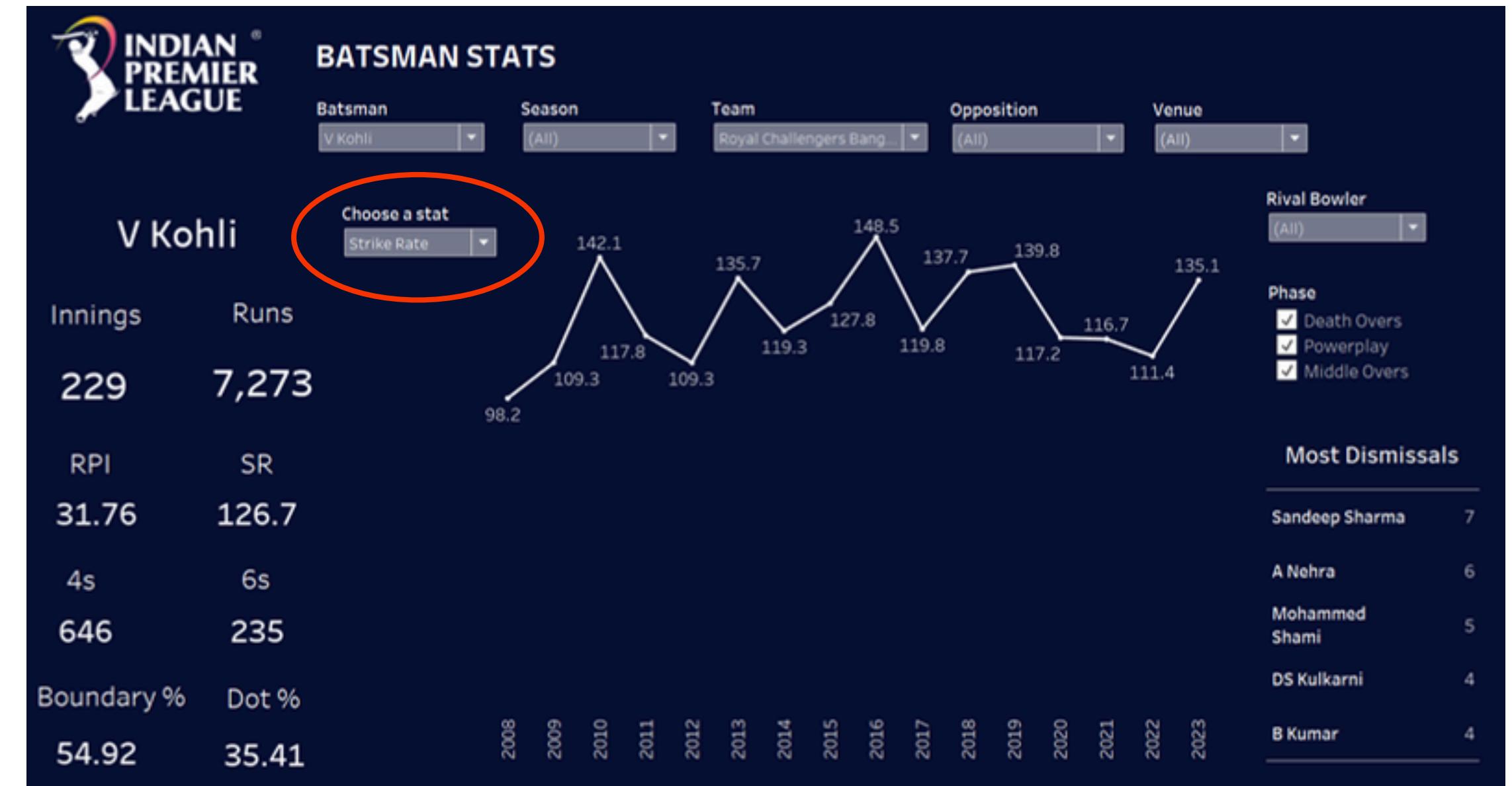
Use Case 1: A specific batsman profile over seasons

Level of Details

- Batsman
- Season
- Team
- Opposition Team
- Venue
- Rival Bowler
- Phase

Available stats

- Innings
- Runs
- Balls faced
- Runs per Innings (RPI)
- Strike Rate
- 4s
- 6s
- Dot ball %
- Boundary %



Use Cases

Use Case 2: A specific bowler profile over seasons

Selected Player: SL Malinga
Seasons: 2008-2023

Based on this, user can see all the indicators for selected player and its progress over time at any level of detail you want



Use Cases

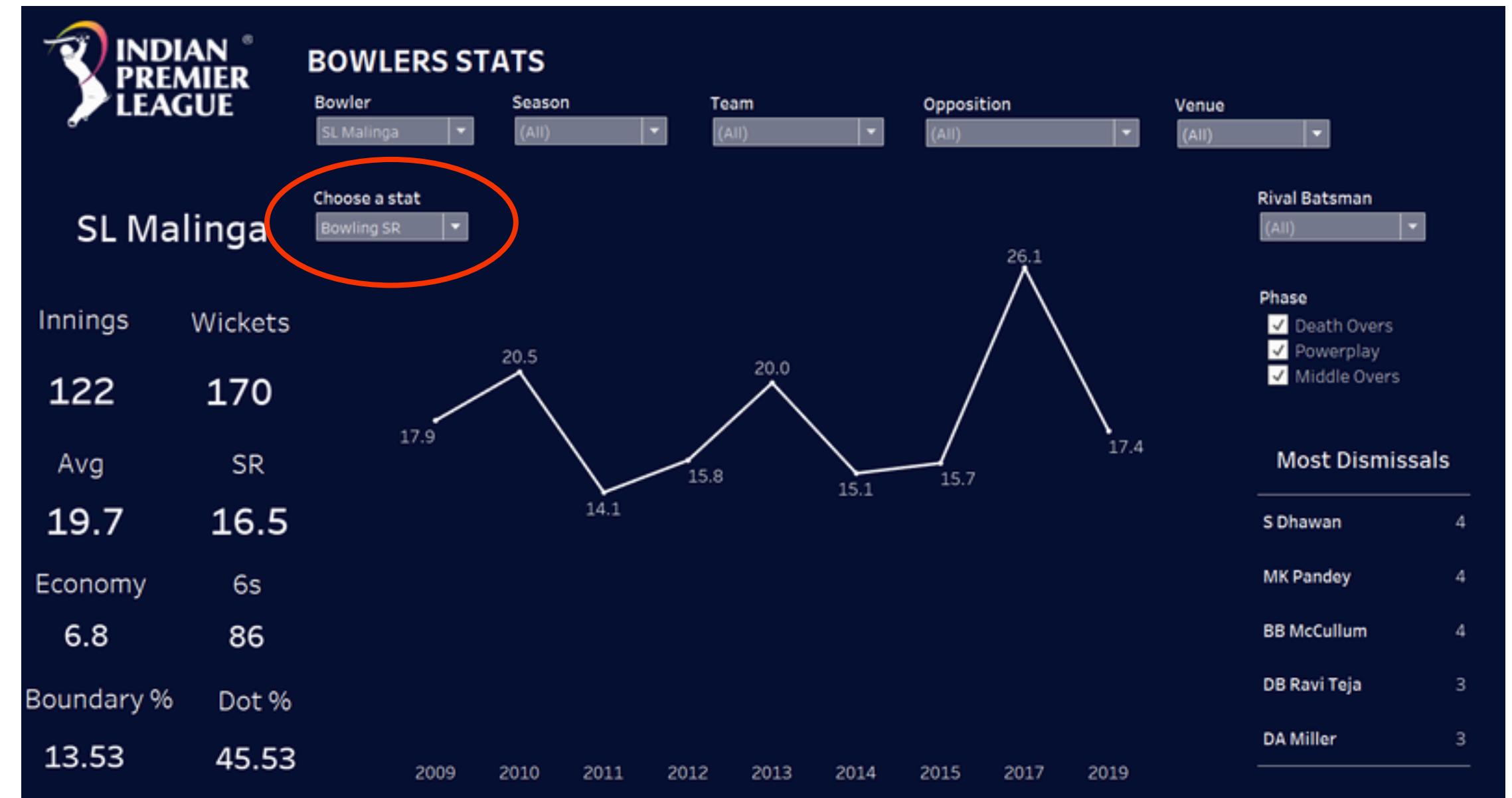
Use Case 2: A specific bowler profile over seasons

Level of Details

- Bowler
- Season
- Team
- Opposition Team
- Venue
- Rival Batsman
- Phase

Available stats

- Innings
- Wickets
- Average
- Strike Rate
- Economy
- 4s conceded
- 6s concede
- Dot ball %
- Boundary %
- Wides conceded
- No balls conceded



Use Cases

Use Case 3: A specific team batting performance over seasons

Selected Team: Kolkata Knight Riders

Selected Season: 2016

Based on this, user can see all the batting stats for all players of the selected team and at any level of detail you want.

All the stats and LOD available are same as that in use case 1



TEAM WISE STATS

Season	Team	Opposition	Phase					
2016	Kolkata Knight ...	(All)	<input checked="" type="checkbox"/> Death Overs <input checked="" type="checkbox"/> Powerplay <input checked="" type="checkbox"/> Middle Overs					
Batsman	Innings	Runs ^r	RPI	Strike Rate	4s	6s	Dot Ball %	Boundary %
G Gambhir	15	501	33.4	118.2	54	6	35.1	50.3
RV Uthappa	15	394	26.3	131.3	45	8	35.7	57.9
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R Sathish	3	24	8.0	100.0	1	1	41.7	41.7
JO Holder	4	22	5.5	110.0	2	1	55.0	63.6
JT Yadav	2	9	4.5	150.0	0	1	33.3	66.7
SP Narine	3	7	2.3	50.0	0	0	57.1	0.0
M Morkel	1	1	1.0	100.0	0	0	0.0	0.0



Use Cases

Use Case 4: A specific team bowling performance over seasons

Selected Team: Mumbai Indians

Selected Season: 2020

Based on this, user can see all the bowling stats for all players of the selected team and at any level of detail you want.

All the stats and LOD available are same as that in use case 2.



TEAM WISE STATS

Season	Team	Rival	Phase
2020	Mumbai Indians	(All)	<input checked="" type="checkbox"/> Death Overs <input checked="" type="checkbox"/> Powerplay <input checked="" type="checkbox"/> Middle Overs
Bowler	Innings	Wickets/r	Average
JJ Bumrah	15	29	14.48
TA Boult	15	25	18.84
RD Chahar	15	15	28.80
JL Pattinson	10	11	29.09
KH Pandya	16	6	63.33
NM Coulter-Nile	7	5	41.00
KA Pollard	11	4	47.50
J Yadav	2	1	43.00
DS Kulkarni	1	0	6.60
		Bowling SR	Dot Ball %
		13.21	49.09
		14.12	46.18
		21.47	33.85
		20.18	39.19
		52.50	36.19
		32.80	47.56
		34.50	32.61
		42.00	30.95
		40.00	40.00
		Boundary %	Wide
		13.58	11
		22.10	6
		15.22	5
		19.82	9
		12.06	20
		15.85	11
		14.49	12
		4.76	0
		Noball	
		1	0
		0	0
		0	0
		0	0
		0	0



Use Cases

Use Case 5: A specific venue profile over seasons

Selected Venue: M Chin. Stadium

Selected Seasons: 2008-2023

Based on this, user can see all the indicators for selected venue and its progress over time at any level of detail you want

Level of Details

- Season
- Venue
- Toss decision

Available stats

- Matches hosted
- Avg, 1st inn. total
- Avg, 2nd inn. total
- Win type



Future Developments

- At present, data is infused till season 2023. Though latest data can be infused manually from data source to dataset, automation of data flow from source to dataset would enable real-time updates in dashboards.
- Possible LOD extension: Field positions in playing ground. It would require data at this level. A new data source needs to be looked out for this purpose.



Thanks

Feel free to ask questions