

Analysis for MI vs DC (as an MI analyst)

Datasets:

Datasets are created by parsing a data from IPL official sites and ESPN site.

Parsing is done using BeautifulSoup4 and Python programming.

Analysis:

1. How to dismiss DC batsmen

- This is done by analysing past data of MI bowlers
- Batting and Bowling styles
- Ball lengths and types
- Current IPL2020 performances

2. How to defend wickets against DC Bowlers

3. Batting and Bowling averages

4. Party spoiler's analysis

5. Pitch report

6. Toss decision

7. Crucial Batman and Bowler for MI

A. Probable MI and DC Squads

- Delhi Capitals

DC Batsmen	Batting Style	DC Bowlers	Bowling Style
P Shaw	Right handed	K Rabada	Right arm Fast
S Dhawan	Left handed	A Nortje	Right arm Fast
A Rahane	Right handed	D Sams	Left arm Fast
S Iyer	Right handed	R Ashwin	Right arm off spin
RR Pant	Left handed	A Patel	Left arm off spin
MP Stoinis	Right handed	MP Stoinis	Right arm Fast

- Mumbai Indians

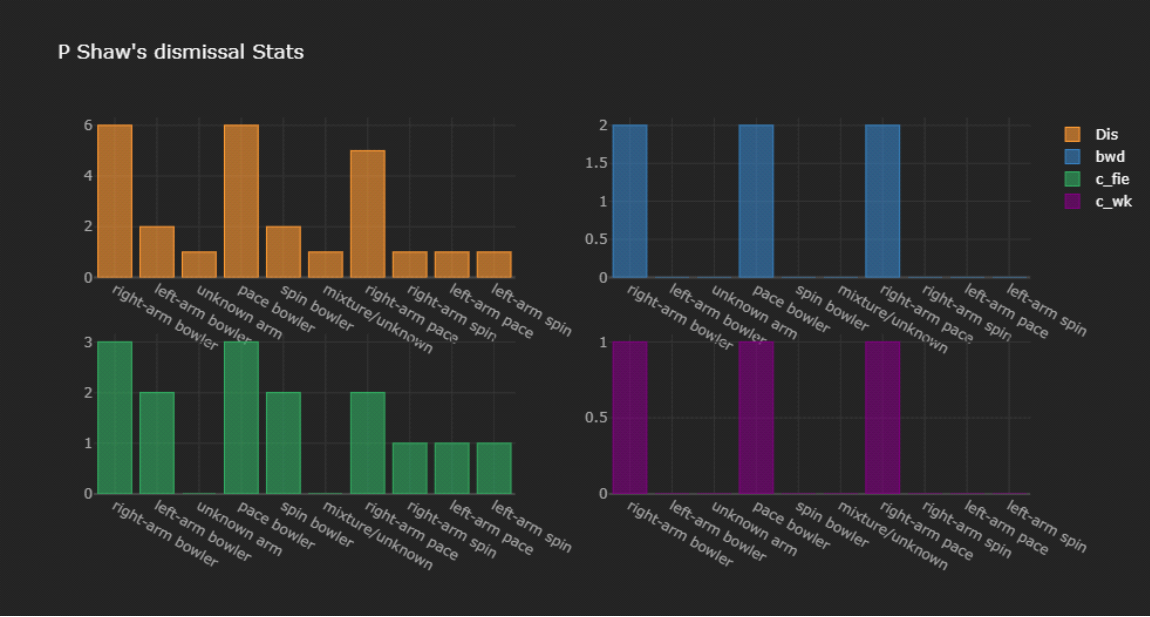
MI Batsmen	Batting Style	MI Bowlers	Bowling Style
RG Sharma	Right handed	JJ Bumrah	Right arm Fast
Q de Kock	Left handed	TA Boult	Left arm Fast
SA Yadav	Right handed	J Pattinson	Right arm Fast
I Kishan	Left handed	RD Chahar	Right arm Leg spin
HH Pandya	Right handed	KH Pandya	Left arm off spin
KA Pollard	Right handed	KA Pollard	Right arm Fast
KH Pandya	Left handed		

B. How to dismiss DC batsmen

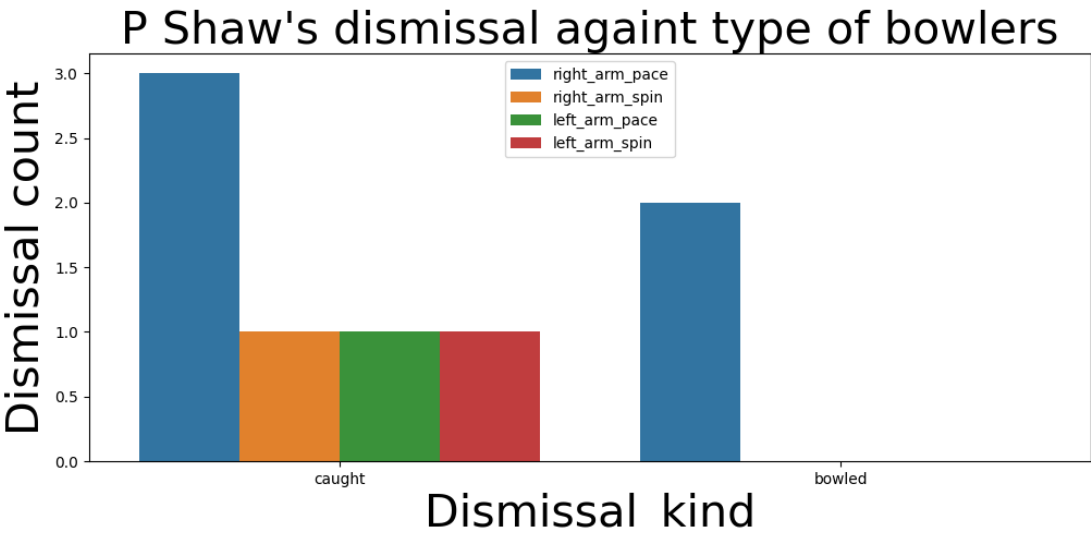
1. P Shaw

- P Shaw struggles against fast bowlers.
- Mainly he struggles against the right arm pacers as shown in below plot.
note:

dis = dismissal count, bwd = bowled, c_fie and c_wk = caught by fielder and wicket keeper

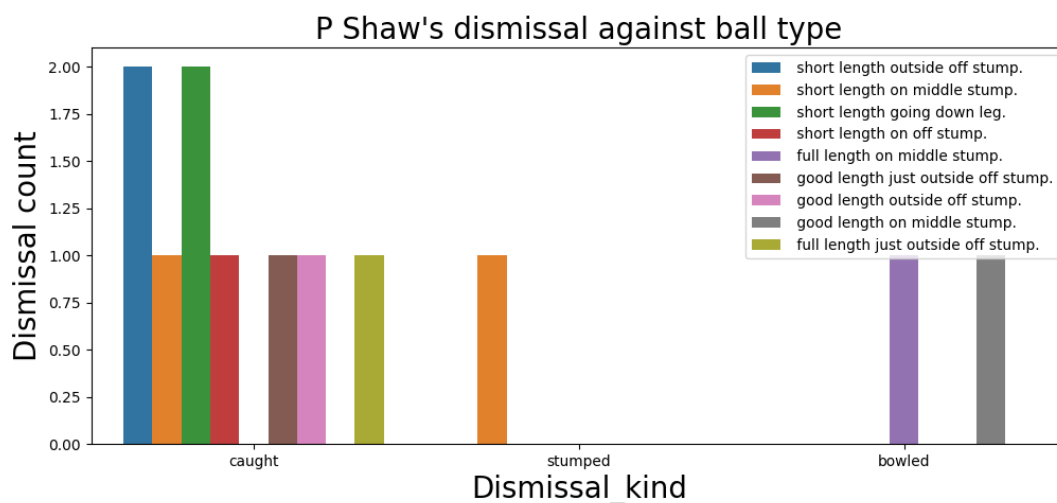


dismissal	Dis	bwd	c_fie	c_wk	st	lbw	hw	ro	oth	no	ave	0s	batsman	match_type	Team
right-arm bowler	6	2	3	1	0	0	0	0	0	0	43.66	0	P Shaw	ALL	Delhi Capitals
left-arm bowler	2	0	2	0	0	0	0	0	0	0	42.00	0	P Shaw	ALL	Delhi Capitals
unknown arm	1	0	0	0	0	0	0	1	0	0	40.00	0	P Shaw	ALL	Delhi Capitals
pace bowler	6	2	3	1	0	0	0	0	0	0	23.66	0	P Shaw	ALL	Delhi Capitals
spin bowler	2	0	2	0	0	0	0	0	0	0	102.00	0	P Shaw	ALL	Delhi Capitals
mixture/unknown	1	0	0	0	0	0	0	1	0	0	40.00	0	P Shaw	ALL	Delhi Capitals
right-arm pace	5	2	2	1	0	0	0	0	0	0	25.60	0	P Shaw	ALL	Delhi Capitals
right-arm spin	1	0	1	0	0	0	0	0	0	0	134.00	0	P Shaw	ALL	Delhi Capitals
left-arm pace	1	0	1	0	0	0	0	0	0	0	14.00	0	P Shaw	ALL	Delhi Capitals
left-arm spin	1	0	1	0	0	0	0	0	0	0	70.00	0	P Shaw	ALL	Delhi Capitals



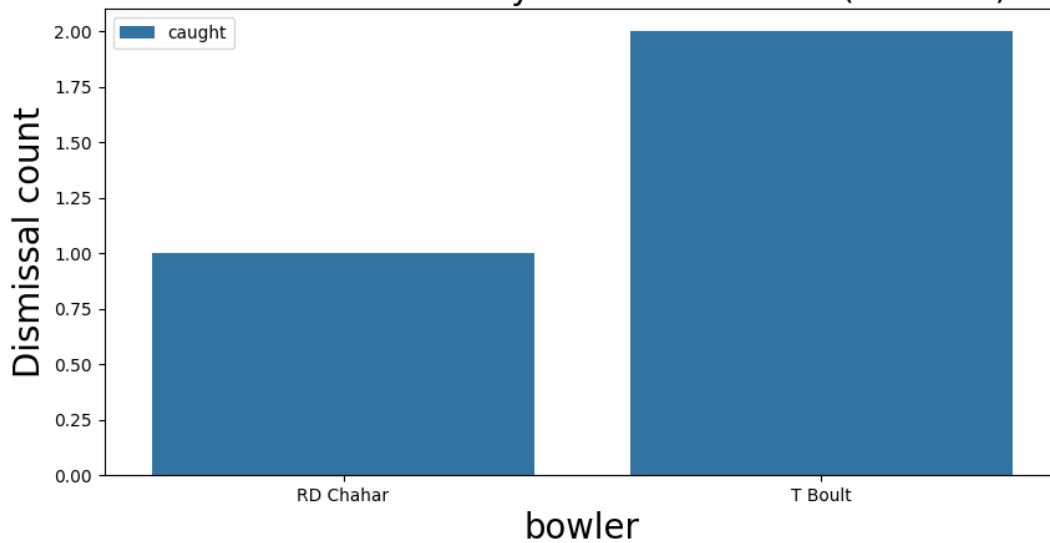
- Short of good length delivery from a fast bowler is a challenge for P shaw.
- He has a tendency to play a pull shot on the front foot and many times he slices it in the air.
- So, if JJ Bumrah and TA Boult will bowl a short of good length, offside the off stump, MI can get him out early.

player_dismissed	batsman_batting_style	over	bowler	right_left_arm	bowling_style	ball_type	ball_speed	dismissal_kind
P Shaw	Right_handed	4	M Shami	Right	FAST_SEAM	short length outside off stump.	134.5	caught
P Shaw	Right_handed	13	P Chawla	Left	-	short length on middle stump.	90.2	stumped
P Shaw	Right_handed	1	B Kumar	Right	MEDIUM_SEAM	short length outside off stump.	132.0	caught
P Shaw	Right_handed	13	K Nagarkoti	Right	MEDIUM_SEAM	short length on middle stump.	134.9	caught
P Shaw	Right_handed	7	M Siraj	Right	MEDIUM_SEAM	short length going down leg.	139.8	caught
P Shaw	Right_handed	5	J Archer	Right	FAST_SEAM	short length on off stump.	138.9	caught
P Shaw	Right_handed	1	J Archer	Right	FAST_SEAM	full length on middle stump.	143.5	bowled
P Shaw	Right_handed	1	D Chahar	Right	MEDIUM_SEAM	good length just outside off stump.	137.9	caught
P Shaw	Right_handed	4	J Neesham	Right	MEDIUM_SEAM	good length outside off stump.	134.6	caught
P Shaw	Right_handed	2	M Siraj	Right	MEDIUM_SEAM	good length on middle stump.	139.4	bowled
P Shaw	Right_handed	1	T Boult	Left	FAST_SEAM	full length just outside off stump.	134.2	caught
P Shaw	Right_handed	3	T Boult	Left	FAST_SEAM	short length going down leg.	138.3	caught



- Outside off stump he is very strong. He just plays on the up through the line. So, MI bowlers should try to avoid bowling in that area.

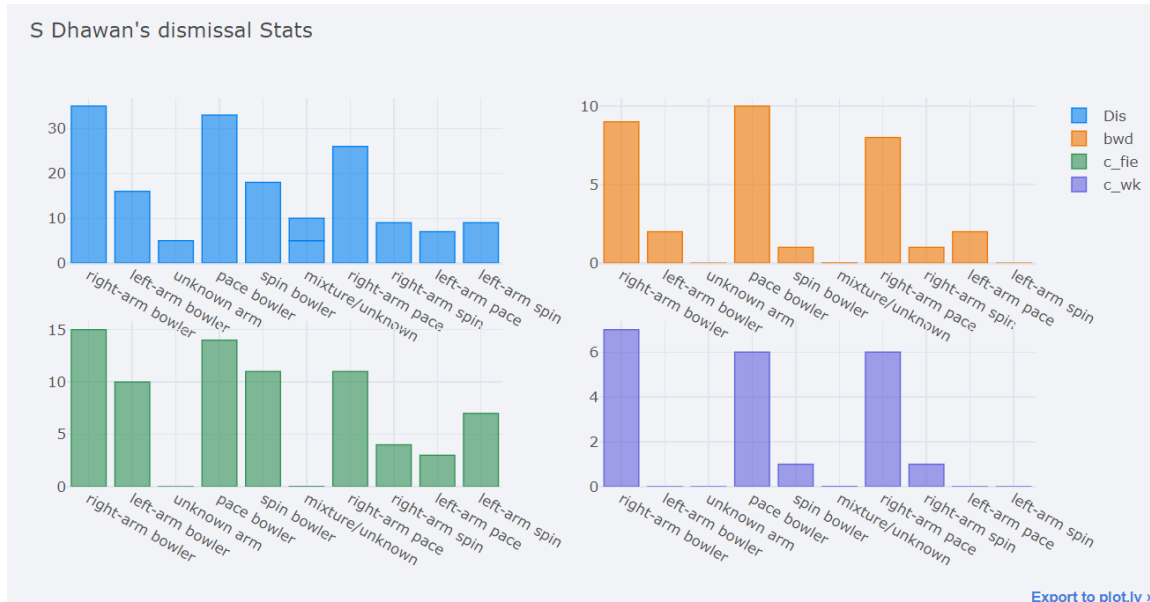
P Shaw's dismissal by MI bowlers in IPL (till 2020)



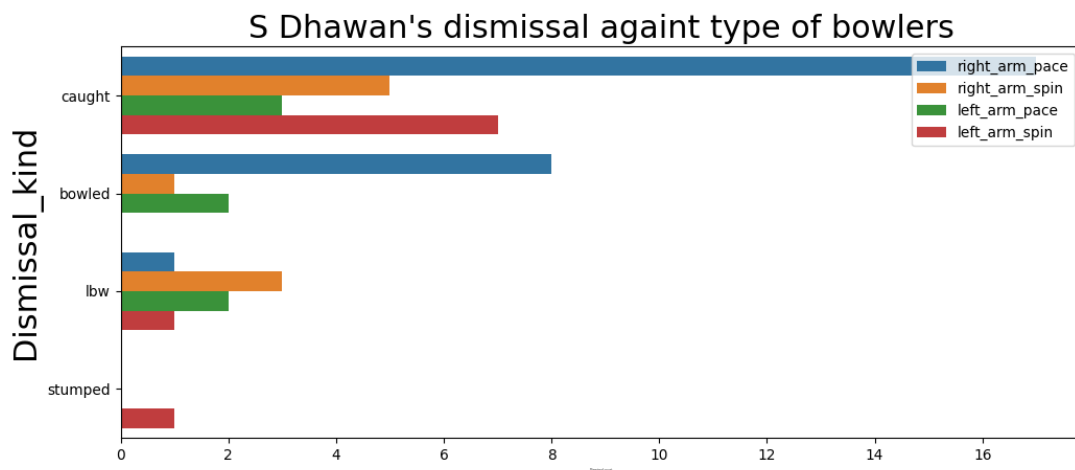
- RD Chahar is a leg spinner and he has a very good googly which will be challenge for P Shaw. Hence, plan B should be bowl with RD Chahar. With bigger boundaries it will be difficult to score against leg spinner.

2. S Dhawan

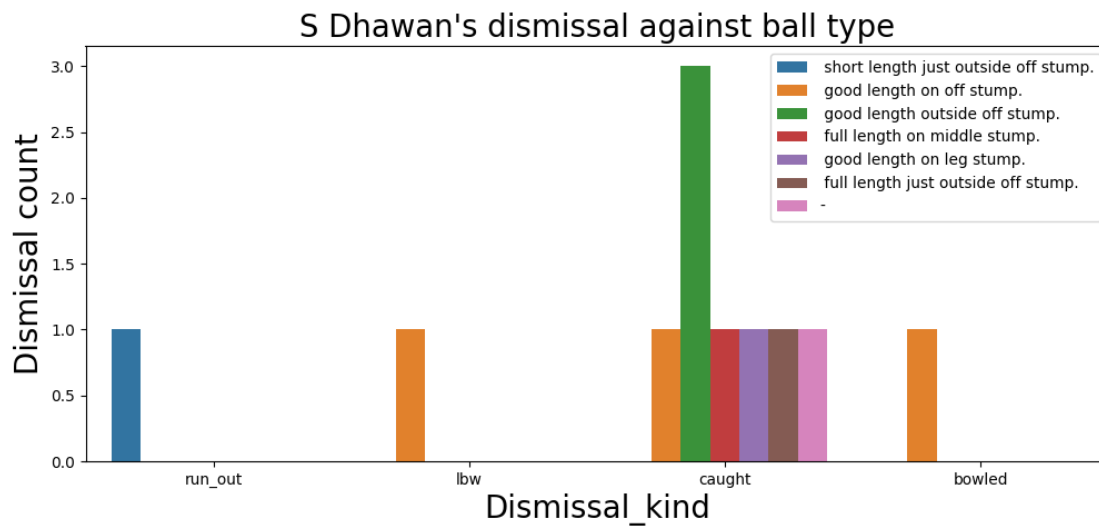
S Dhawan's dismissal Stats



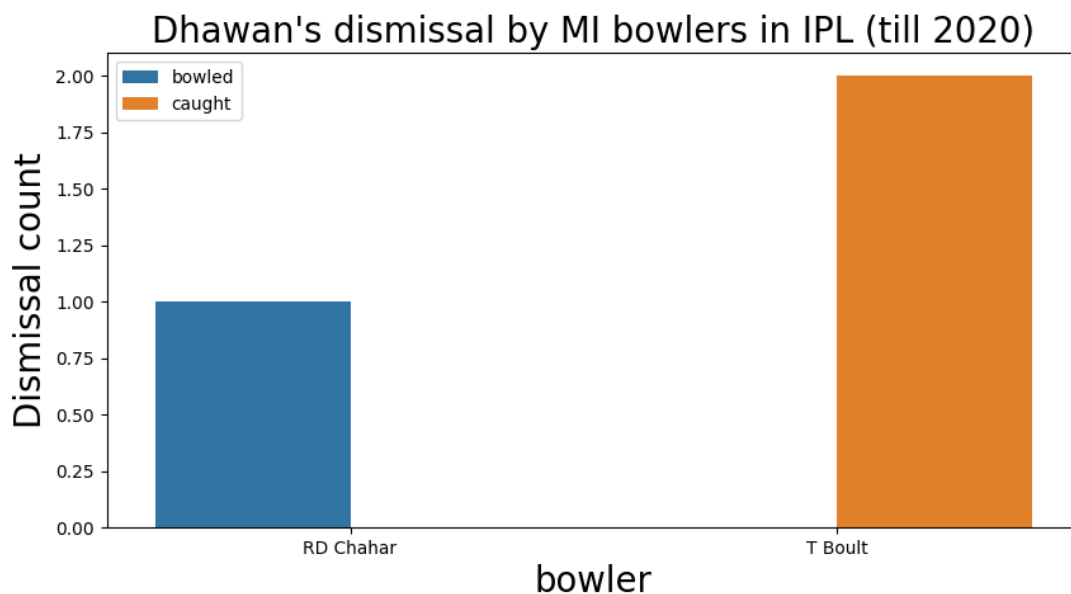
dismissal	Dis	bwd	c_fie	c_wk	st	lbw	hw	ro	oth	no	ave	0s	batsman	match_type	Team
right-arm bowler	35	9	15	7	0	4	0	0	0	0	28.17	1	S Dhawan	T20	Delhi Capitals
left-arm bowler	16	2	10	0	1	3	0	0	0	0	25.06	0	S Dhawan	T20	Delhi Capitals
unknown arm	5	0	0	0	0	0	0	5	0	0	24.80	0	S Dhawan	T20	Delhi Capitals
pace bowler	33	10	14	6	0	3	0	0	0	0	22.60	0	S Dhawan	T20	Delhi Capitals
spin bowler	18	1	11	1	1	4	0	0	0	0	35.61	1	S Dhawan	T20	Delhi Capitals
mixture/unknown	5	0	0	0	0	0	0	5	0	0	24.80	0	S Dhawan	T20	Delhi Capitals
right-arm pace	26	8	11	6	0	1	0	0	0	0	26.07	0	S Dhawan	T20	Delhi Capitals
right-arm spin	9	1	4	1	0	3	0	0	0	0	34.22	1	S Dhawan	T20	Delhi Capitals
left-arm pace	7	2	3	0	0	2	0	0	0	0	9.71	0	S Dhawan	T20	Delhi Capitals
left-arm spin	9	0	7	0	1	1	0	0	0	0	37.00	0	S Dhawan	T20	Delhi Capitals
mixture/unknown	5	0	0	0	0	0	0	5	0	0	24.80	0	S Dhawan	T20	Delhi Capitals



player_dismissed	batsman_batting_style	over	bowler	right_left_arm	bowling_style	ball_type	ball_speed	dismissal_kind
S Dhawan	Left_handed	2	M Shami	Right	FAST_SEAM	short length just outside off stump.	130.0	run_out
S Dhawan	Left_handed	11	P Chawla	Left	-	good length on off stump.	93.3	lbw
S Dhawan	Left_handed	12	R Khan	Right	LEG_SPIN	good length outside off stump.	88.7	caught
S Dhawan	Left_handed	6	V Chakravarthy	Right	LEG_SPIN	good length on off stump.	91.0	caught
S Dhawan	Left_handed	10	I Udana	Left	MEDIUM_SEAM	full length on middle stump.	134.5	caught
S Dhawan	Left_handed	2	J Archer	Right	FAST_SEAM	good length on leg stump.	144.7	caught
S Dhawan	Left_handed	12	S Gopal	Right	-	good length outside off stump.	90.5	caught
S Dhawan	Left_handed	3	P Cummins	Right	FAST_SEAM	good length on off stump.	147.5	bowled
S Dhawan	Left_handed	1	S Sharma	Right	MEDIUM_SEAM	full length just outside off stump.	124.0	caught
S Dhawan	Left_handed	13	S Ahmed	Left	ORTHODOX	-	-3.6	caught
S Dhawan	Left_handed	1	T Boult	Left	FAST_SEAM	good length outside off stump.	134.4	caught

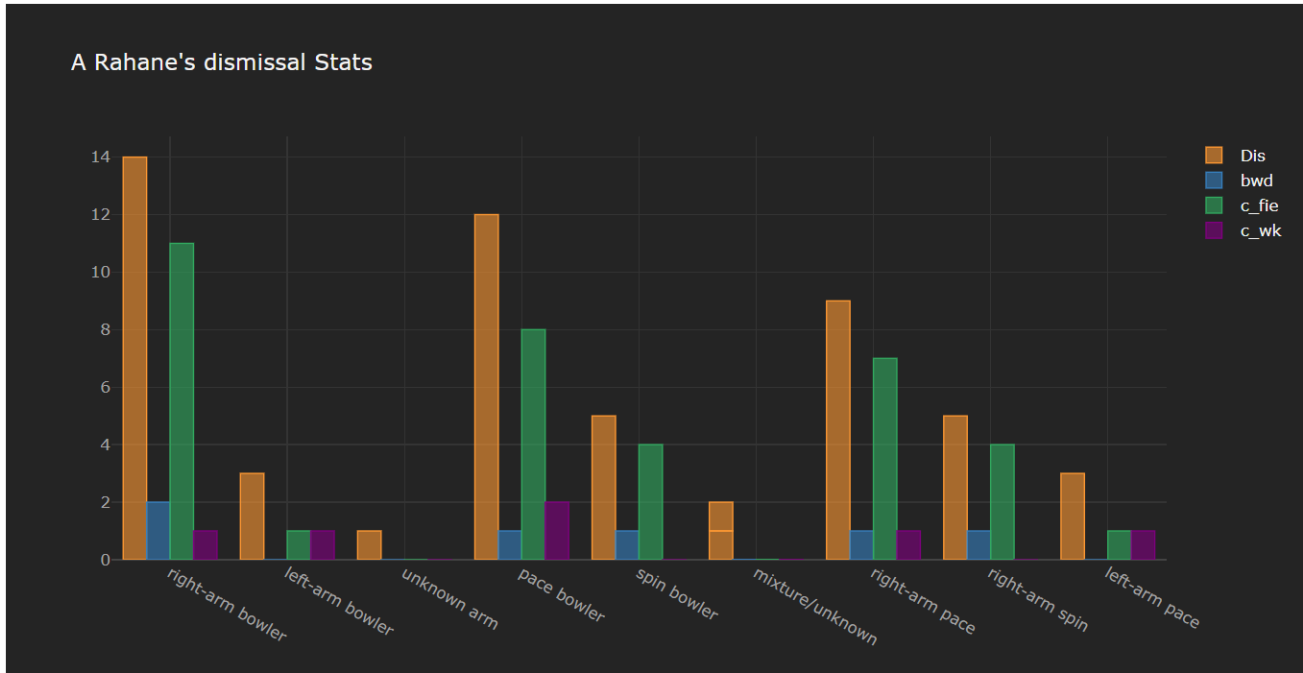


- S Dhawan likes to drive the ball through the covers.
- To get him out early TA Boult and JJ Bumrah need to bowl outswingers outside off stump with slip in place. with this strategy we can get him out.
- As shown in above graph, we have seen a same tendency of getting out at good length ball outside off stump.

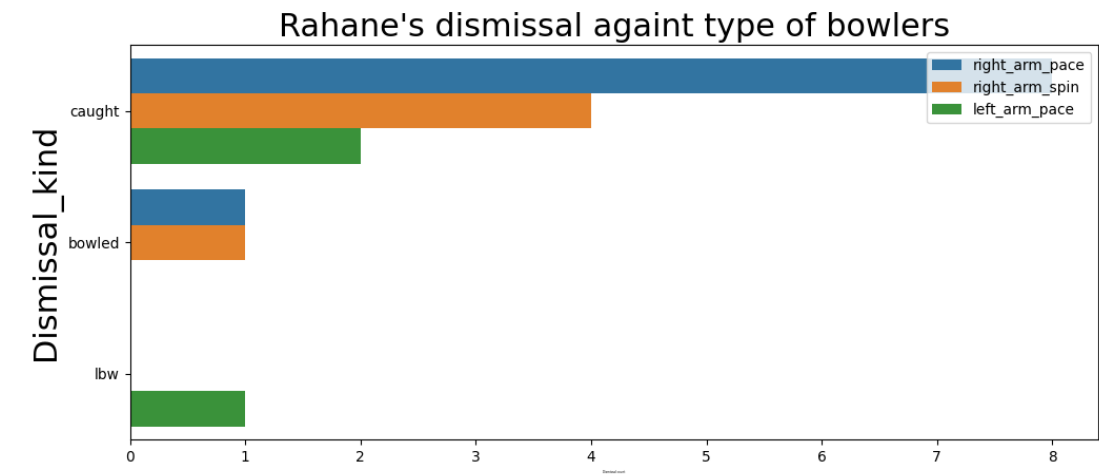


- Also , he likes to cut the ball in point region. So, MI bowlers need to bowl into the stump line to keep him quiet and not giving him any room outside the off stump.
- Putting the point fielder in the deep will help in limiting the boundaries in the same region.

3. A Rahane:

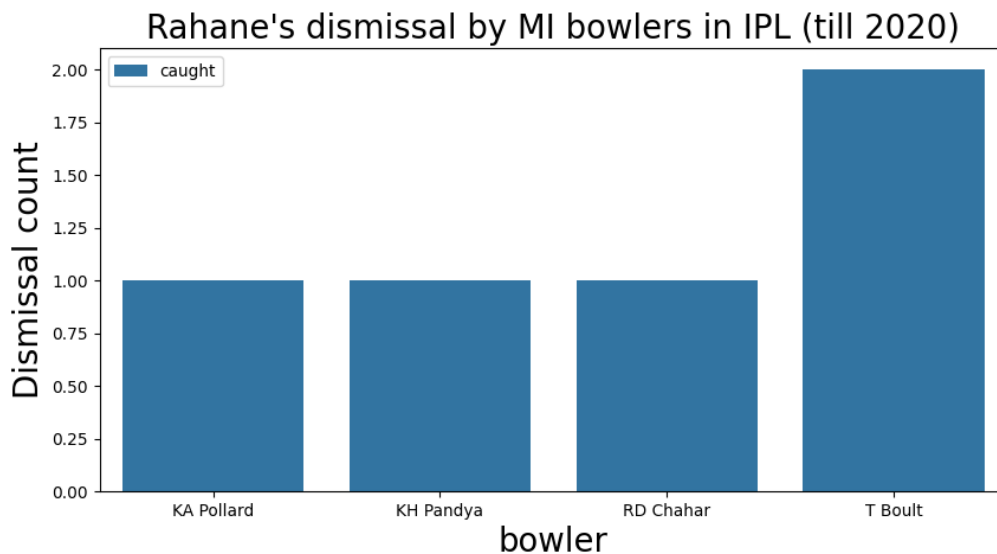


dismissal	Dis	bwd	c_fie	c_wk	st	lbw	hw	ro	oth	no	ave	0s	batsman	match_type	Team
right-arm pace	9	1	7	1	0	0	0	0	0	0	18.33	1	A Rahane	T20	Delhi Capitals
right-arm spin	5	1	4	0	0	0	0	0	0	0	25.80	0	A Rahane	T20	Delhi Capitals
left-arm pace	3	0	1	1	0	1	0	0	0	0	17.00	1	A Rahane	T20	Delhi Capitals
mixture/unknown	1	0	0	0	0	0	0	1	0	0	4.00	0	A Rahane	T20	Delhi Capitals



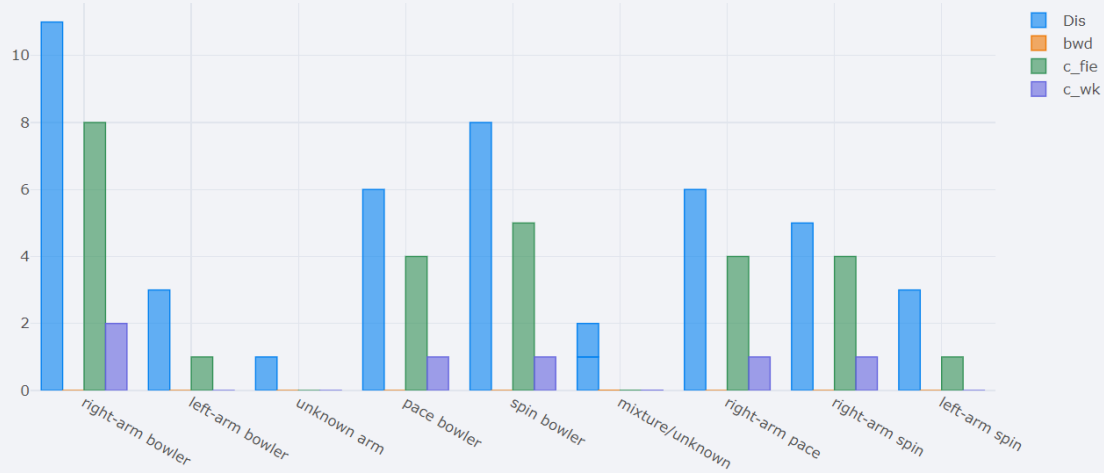
player_dismissed	batsman_batting_style	over	bowler	right_left_arm	bowling_style	ball_type	ball_speed	dismissal_kind
A Rahane	Right_handed	3	J Archer	Right	FAST_SEAM	good length just outside off stump.	144.6	caught
A Rahane	Right_handed	5	D Chahar	Right	MEDIUM_SEAM	good length on off stump.	135.0	caught
A Rahane	Right_handed	1	P Cummins	Right	FAST_SEAM	good length on middle stump.	141.2	lbw
A Rahane	Right_handed	7	R Khan	Right	LEG_SPIN	good length on leg stump.	88.7	lbw
A Rahane	Right_handed	18	W Sundar	Right	-	short length on leg stump.	102.9	caught
A Rahane	Right_handed	5	K Pandya	Left	-	short length on leg stump.	93.5	lbw

- A Rahane always puts his front foot across the line. So, with 3 of our fast bowlers we can trap him by bowling in swingers into his pads.
- He has got out in similar fashion in IPL2020 already. as shown in above table.
- Also, with Chahar's Googly he will struggle.



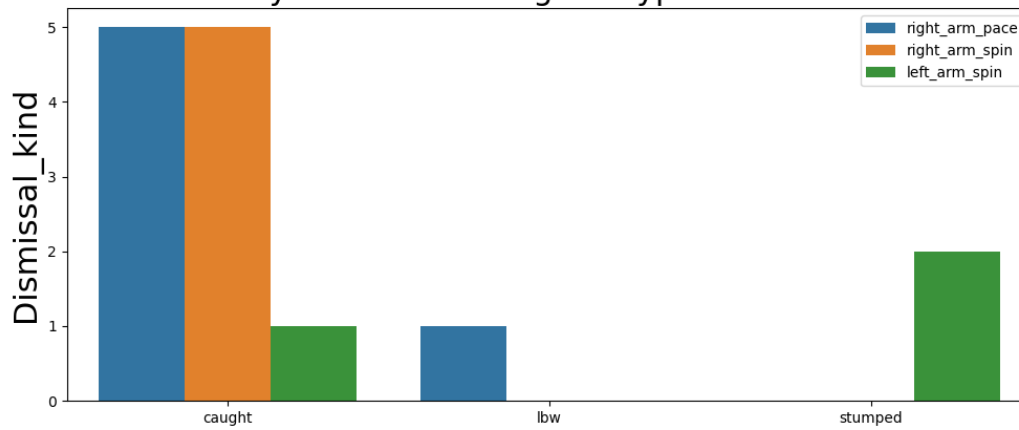
4. S Iyer

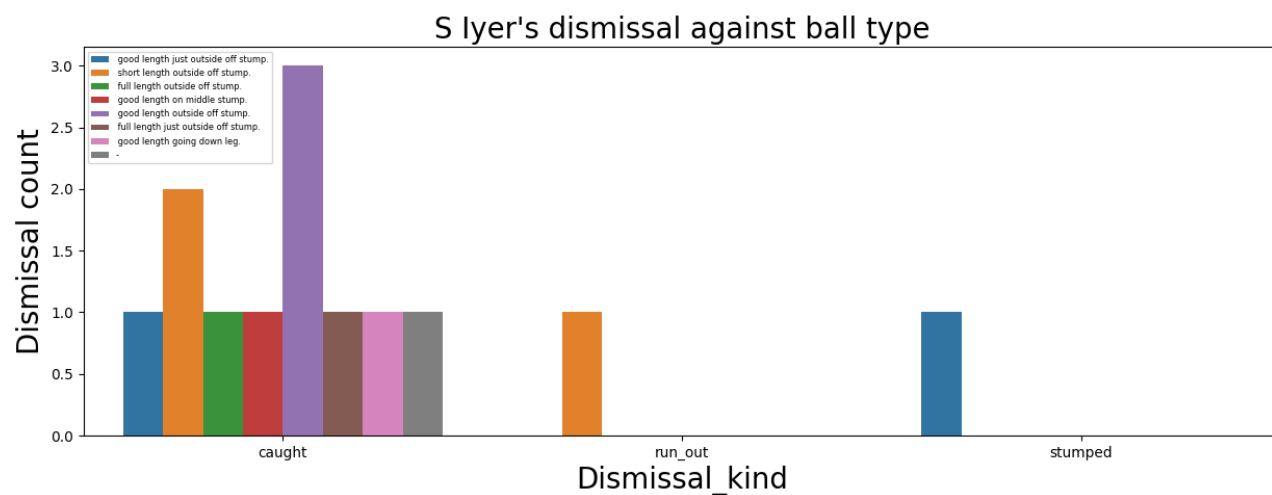
S Iyer's dismissal Stats



- S Iyer is DC's middle order batsman.
- In the middle overs R Chahar and KH Pandya will bowl.
- If boundaries don't come , Iyer always tries for big shots in a long region.
- So, against Chahar we will have a chance to get him out. Above graph also shows his past dismissals against spin bowlers are descent.

S Iyer's dismissal against type of bowlers

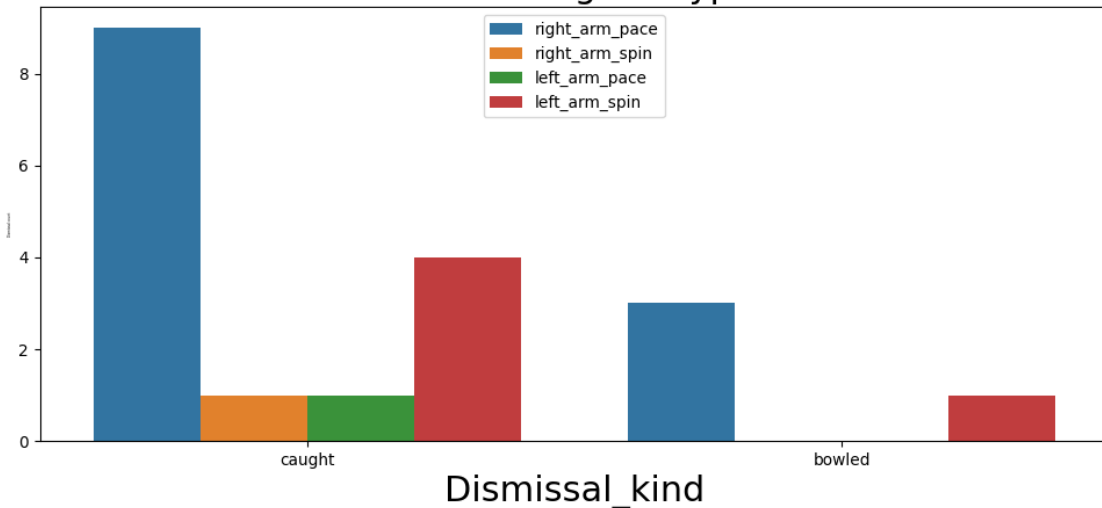




player_dismissed	batsman_batting_style	over	bowler	right_left_arm	bowling_style	ball_type	ball_speed	dismissal_kind
S Iyer	Right_handed	15	M Shami	Right	FAST_SEAM	good length just outside off stump.	119.9	caught
S Iyer	Right_handed	19	S Curran	Left	MEDIUM_SEAM	short length outside off stump.	118.5	caught
S Iyer	Right_handed	8	R Khan	Right	LEG_SPIN	full length outside off stump.	96.0	caught
S Iyer	Right_handed	12	M Ali	Right	OFF_SPIN	good length on middle stump.	92.7	caught
S Iyer	Right_handed	6	A Tye	Right	-	short length outside off stump.	121.6	run_out
S Iyer	Right_handed	16	K Tyagi	Right	FAST_SEAM	good length outside off stump.	139.3	caught
S Iyer	Right_handed	12	DJ Bravo	Right	MEDIUM_SEAM	full length just outside off stump.	131.2	caught
S Iyer	Right_handed	9	M Ashwin	Right	LEG_SPIN	good length going down leg.	90.4	caught
S Iyer	Right_handed	14	V Chakravarthy	Right	LEG_SPIN	good length outside off stump.	101.3	caught
S Iyer	Right_handed	12	V Shankar	Right	MEDIUM_SEAM	short length outside off stump.	120.6	caught
S Iyer	Right_handed	17	S Ahmed	Left	ORTHODOX	good length outside off stump.	94.5	caught
S Iyer	Right_handed	15	K Pandya	Left	-	-	-3.6	caught
S Iyer	Right_handed	11	R Chahar	Right	LEG_SPIN	good length just outside off stump.	89.5	stumped

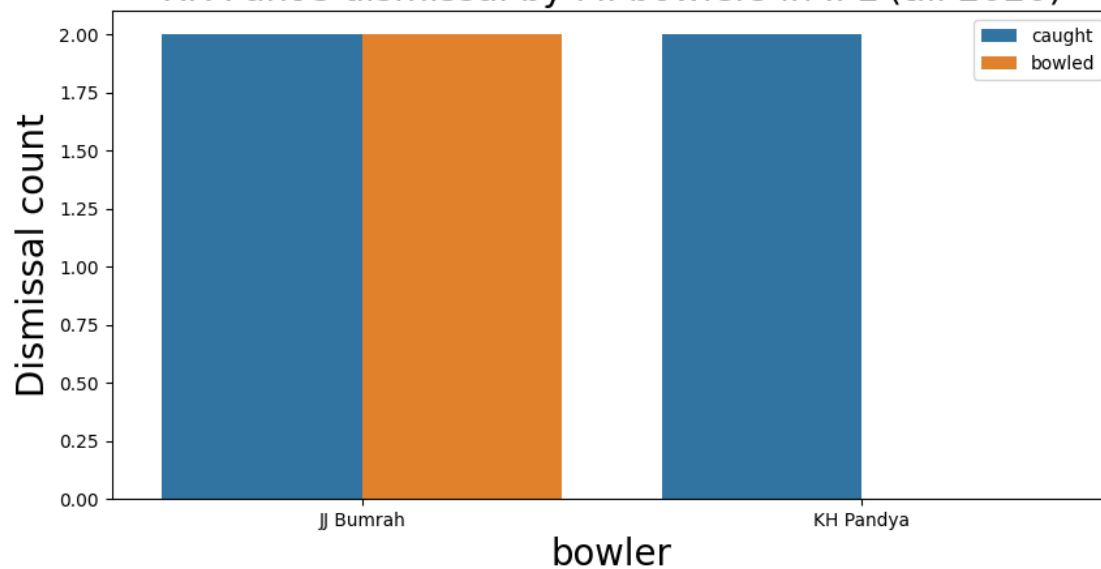
5. RR Pant:

RR Pant's dismissal against type of bowlers



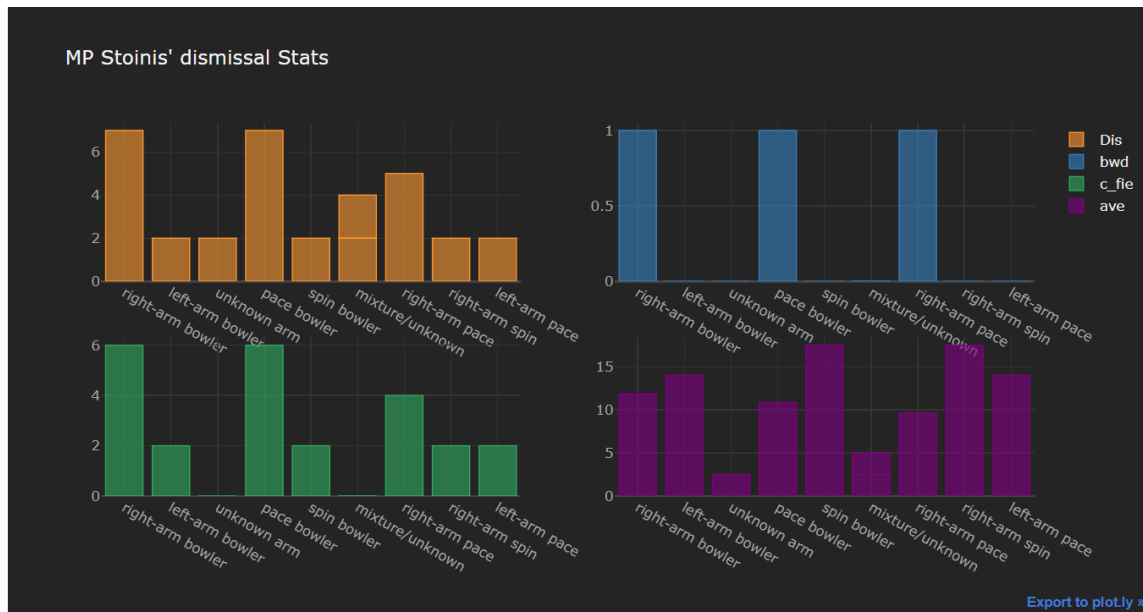
player_dismissed	batsman_batting_style	over	bowler	right_left_arm	bowling_style	ball_type	ball_speed	dismissal_kind
R Pant	Left_handed	14	R Bishnoi	Right	LEG_SPIN	good length going down leg.	88.0	bowled
R Pant	Left_handed	17	R Khan	Right	LEG_SPIN	full length just outside off stump.	84.9	caught
R Pant	Left_handed	18	A Russell	Right	FAST_SEAM	full length on off stump.	138.3	caught
R Pant	Left_handed	19	M Siraj	Right	MEDIUM_SEAM	short length on off stump.	138.5	bowled
R Pant	Right_handed	10	R Tewatia	Right	LEG_SPIN	good length on leg stump.	89.4	run_out
R Pant	Left_handed	14	G Maxwell	Right	OFF_SPIN	good length going down leg.	95.9	caught
R Pant	Left_handed	12	V Chakravarthy	Right	LEG_SPIN	good length on middle stump.	89.2	caught
R Pant	Left_handed	17	S Sharma	Right	MEDIUM_SEAM	full length outside off stump.	125.7	caught
R Pant	Left_handed	12	J Bumrah	Right	FAST_SEAM	good length on middle stump.	144.9	lbw

RR Pant's dismissal by MI bowlers in IPL (till 2020)



- In the past, Bumrah has been successful against Pant. As soon as Pant comes ti bat we can bowl one over with Bumrah and try for his wicket.
- R Pant Struggles gainst googly, with Chahar we need to attack him early with slip in place.

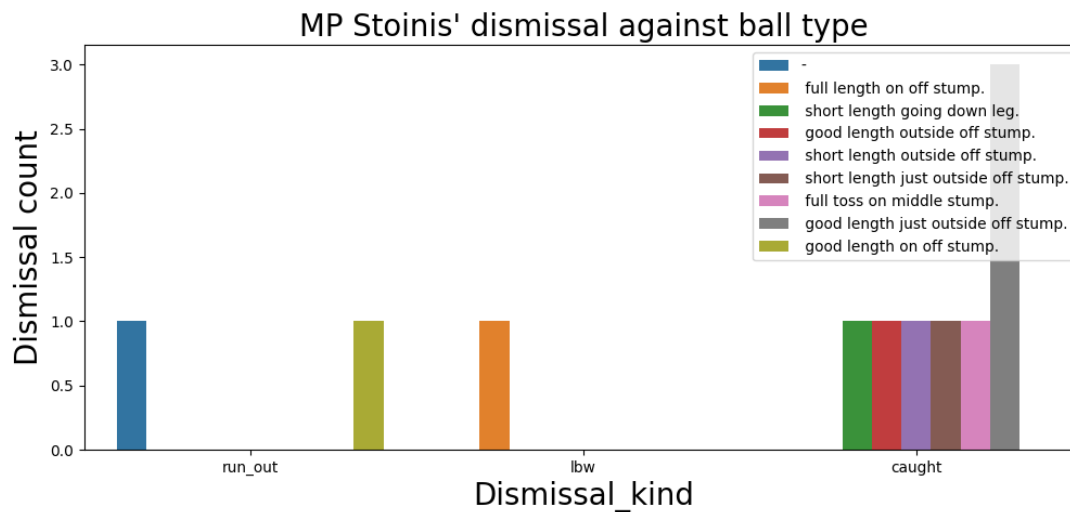
6. MP stoinis:



- MP Stoinis is a finisher batsman but against the fast bowlers he went too much across the stumps.

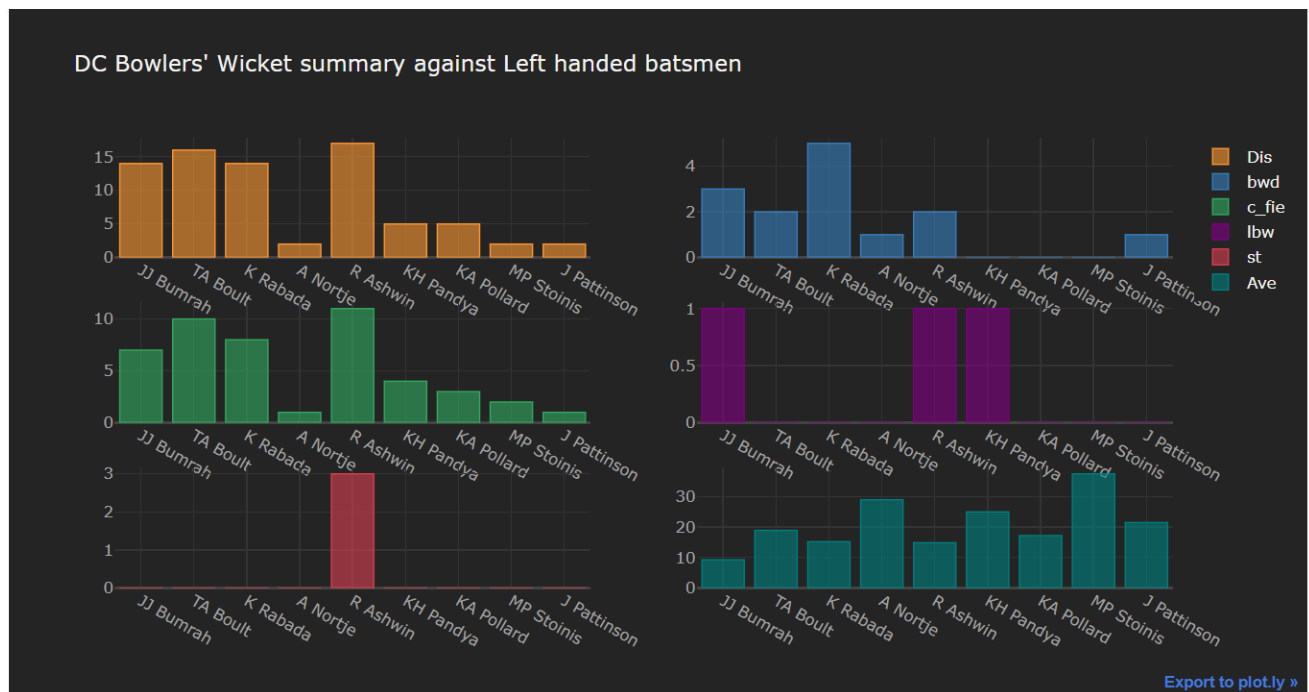
So, with outside off stump good length deliveries he'll struggle. It is evidently seen in IPL2020 as shown in following data frame

player_dismissed	batsman_batting_style	over	bowler	right_left_arm	bowling_style	ball_type	ball_speed	dismissal_kind
M Stoinis	Right_handed	20	C Jordan	Right	FAST_SEAM	-	136.5	run_out
M Stoinis	Right_handed	18	T Natarajan	Left	MEDIUM_SEAM	full length on off stump.	137.8	lbw
M Stoinis	Right_handed	20	A Russell	Right	FAST_SEAM	short length going down leg.	103.8	caught
M Stoinis	Right_handed	14	R Tewatia	Right	LEG_SPIN	good length outside off stump.	88.5	caught
M Stoinis	Right_handed	19	J Archer	Right	FAST_SEAM	short length outside off stump.	146.3	caught
M Stoinis	Right_handed	16	S Thakur	Right	MEDIUM_SEAM	short length just outside off stump.	130.1	caught
M Stoinis	Right_handed	18	M Shami	Right	FAST_SEAM	full toss on middle stump.	139.9	caught
M Stoinis	Right_handed	16	V Chakravarthi	Right	LEG_SPIN	good length just outside off stump.	96.3	caught
M Stoinis	Right_handed	2	S Nadeem	Left	ORTHODOX	good length just outside off stump.	95.9	caught
M Stoinis	Right_handed	17	R Chahar	Right	LEG_SPIN	good length on off stump.	94.6	run_out
M Stoinis	Right_handed	12	J Bumrah	Right	FAST_SEAM	good length just outside off stump.	137.3	caught



According to this analysis, JJ Bumrah is the most important bowler for MI team. He not only picks wickets but he knows how to contain. In death overs his economy is exceptional. It is difficult to score against him.

C. How to defend the Wickets against DC bowlers:



DC Bowlers' Wicket summary against Right handed batsmen



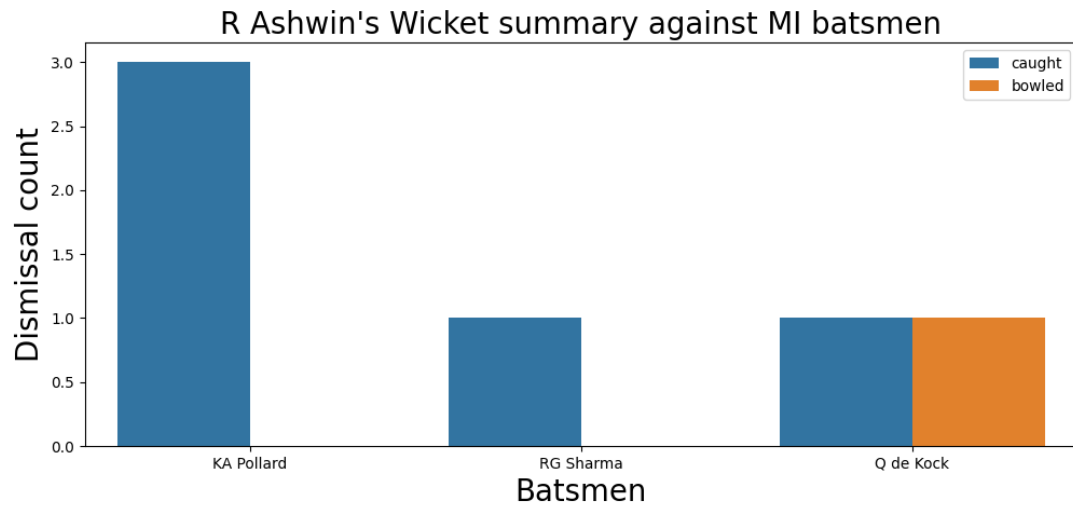
Dismissal records of R Ashwin in IPL 2020

over	bowler	bowling_style	ball_type	player_dismissed	batsman_batting_style	dismissal_kind
6	R Ashwin	OFF_SPIN	good length going down leg.	K Nair	Right_handed	c
6	R Ashwin	OFF_SPIN	good length on off stump.	N Pooran	Left_handed	b
3	R Ashwin	OFF_SPIN	good length just outside off stump.	D Padikkal	Left_handed	c
3	R Ashwin	OFF_SPIN	good length on leg stump.	J Buttler	Right_handed	c
12	R Ashwin	OFF_SPIN	good length on off stump.	M Lomror	Left_handed	c
4	R Ashwin	OFF_SPIN	-	S Smith	Right_handed	c
6	R Ashwin	OFF_SPIN	good length on middle stump.	C Gayle	Left_handed	b
6	R Ashwin	OFF_SPIN	good length on middle stump.	M Agarwal	Left_handed	run_out
10	R Ashwin	OFF_SPIN	good length on middle stump.	D Warner	Left_handed	c
13	R Ashwin	OFF_SPIN	good length going down leg.	V Kohli	Right_handed	c
10	R Ashwin	OFF_SPIN	good length on middle stump.	Q de Kock	Left_handed	c

According to above table,

- R Ashwin is the most important bowler for DC, Because MI has 3 left hand batsmen.
- He could be a party ruiner.

- Ashwin generally bowls in front of left handers. So he will bowl against Q de Kock in powerplay and against Ishan Kishan in Middle overs.
- So, even if in his 4 overs if we score 24 that will do just fine.



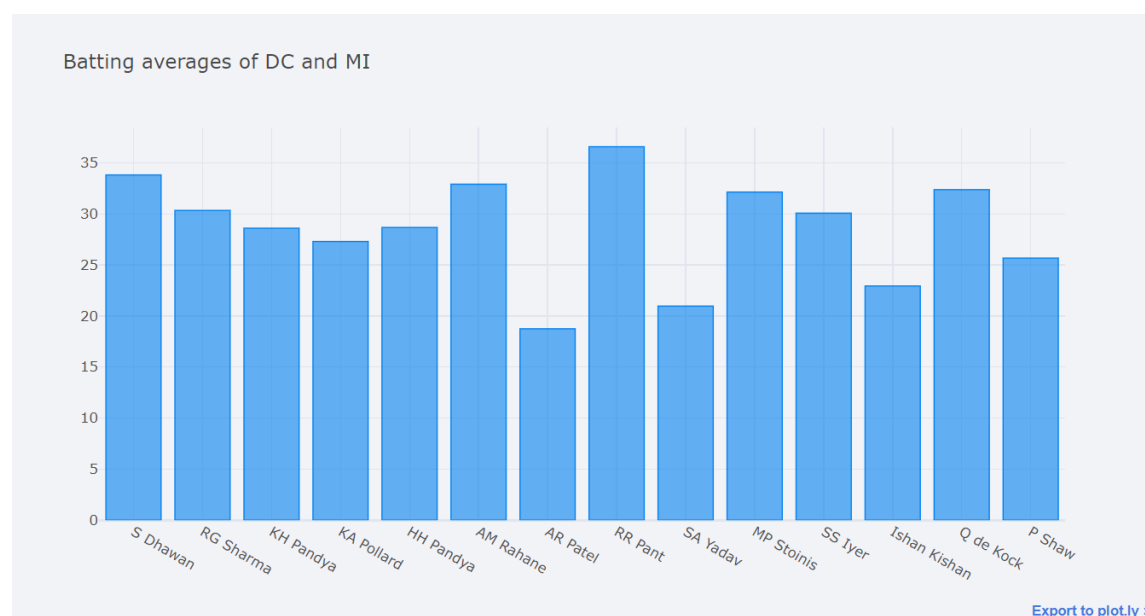
- DC have a A Patel(Left arm off spinner) and MP Stoinis(Part time medium pace bowler) against him MI batsmen can play big shots and can score more than 50 runs in 4 overs.

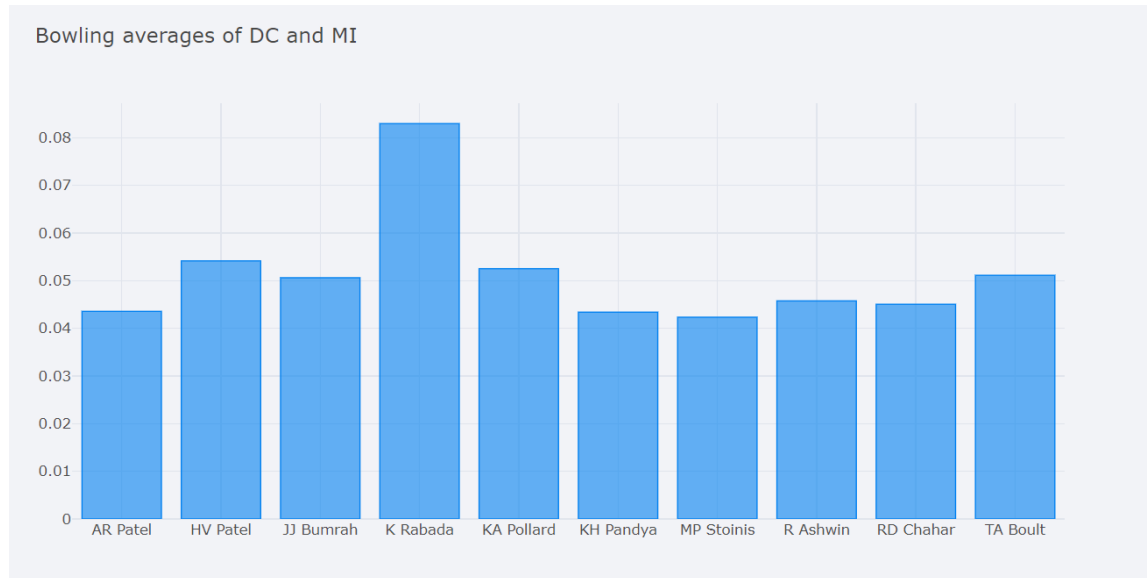
	dismissal	Dis	bwd	c_fie	c_wk	st	lbw	hw	Ave	0s	bowler
right-hand batsman		45	21	15	5	0	4	0	9.46	8	JJ Bumrah
left-hand batsman		14	3	7	3	0	1	0	9.28	0	JJ Bumrah
right-hand batsman		23	4	13	4	0	2	0	18.91	2	TA Boult
left-hand batsman		16	2	10	4	0	0	0	18.93	1	TA Boult
right-hand batsman		1	0	1	0	0	0	0	10.00	0	RD Chahar
right-hand batsman		16	5	9	1	0	1	0	13.75	3	K Rabada
left-hand batsman		14	5	8	1	0	0	0	15.21	0	K Rabada
left-hand batsman		2	1	1	0	0	0	0	29.00	0	A Nortje
right-hand batsman		35	5	22	1	2	5	0	16.65	2	R Ashwin
left-hand batsman		17	2	11	0	3	1	0	14.88	1	R Ashwin
right-hand batsman		9	2	3	0	0	4	0	14.44	2	KH Pandya
left-hand batsman		5	0	4	0	0	1	0	25.00	0	KH Pandya
right-hand batsman		30	3	23	4	0	0	0	26.03	0	KA Pollard
left-hand batsman		5	0	3	2	0	0	0	17.20	1	KA Pollard
right-hand batsman		7	2	5	0	0	0	0	19.57	0	MP Stoinis
left-hand batsman		2	0	2	0	0	0	0	37.50	0	MP Stoinis
right-hand batsman		1	0	1	0	0	0	0	3.00	0	J Pattinson
left-hand batsman		2	1	1	0	0	0	0	21.50	0	J Pattinson

- Key player from MI would be Q de Kock
- So, he needs to stay on the crease for more overs.
- According to this season's matches against DC following players of MI are very crucial
- RG sharma hasn't shown good performance against DC. hence Q de kock would be a crucial player

match_id	batsman	batsman_runs
22262	I Kishan	28
22262	K Pandya	12
22262	K Pollard	11
22262	Q de Kock	53
22262	R Sharma	5
22262	S Yadav	53
22286	I Kishan	72
22286	Q de Kock	26
22286	S Yadav	12

D. Bowling and Batting averages of MI and DC players.





E. Toss decision effects:

Mumbai Indians: Fielding first is a better option for Mumbai Indians to win

	toss_winner	toss_decision	winner
0	Chennai Super Kings	field	Chennai Super Kings
1	Kolkata Knight Riders	field	Mumbai Indians
2	Mumbai Indians	field	Royal Challengers Bangalore
3	Kings XI Punjab	field	Mumbai Indians
4	Mumbai Indians	bat	Mumbai Indians
5	Mumbai Indians	bat	Mumbai Indians
6	Delhi Capitals	bat	Mumbai Indians
7	Kolkata Knight Riders	bat	Mumbai Indians
8	Mumbai Indians	bat	Kings XI Punjab
9	Mumbai Indians	field	Mumbai Indians
10	Mumbai Indians	bat	Rajasthan Royals
11	Mumbai Indians	field	Mumbai Indians
12	Mumbai Indians	field	Mumbai Indians
13	Sunrisers Hyderabad	field	Sunrisers Hyderabad

Delhi Capitals:

	toss_winner	toss_decision	winner
0	Kings XI Punjab	field	Delhi Capitals
1	Chennai Super Kings	field	Delhi Capitals
2	Delhi Capitals	field	Sunrisers Hyderabad
3	Kolkata Knight Riders	field	Delhi Capitals
4	Royal Challengers Bangalore	field	Delhi Capitals
5	Rajasthan Royals	field	Delhi Capitals
6	Delhi Capitals	bat	Delhi Capitals
7	Chennai Super Kings	bat	Delhi Capitals
8	Delhi Capitals	bat	Kings XI Punjab
9	Delhi Capitals	field	Kolkata Knight Riders
10	Delhi Capitals	bat	Sunrisers Hyderabad
11	Delhi Capitals	field	Delhi Capitals
12	Delhi Capitals	bat	Mumbai Indians
13	Mumbai Indians	field	Mumbai Indians

Pitch report:

Venue: Dubai International Cricket Stadium:

T20 matches played: 91

Matches won by teams batting first: 37

Matches won by teams batting second: 53 (1 match ended in a tie with no winner)

Highest 1st innings score: 219/2

Lowest 1st innings score: 59

Highest successful run chase: 203/8

Average 1st innings score: 157

Conclusion:

- Q de Kock is the most important batsman for MI.
- After winning a toss they should Bowl first
- As a dew is a big factor in Dubai, ball will come on to the bat nicely in second innings. Bowling second is difficult because ball will get wet in cut field.
- If MI Bowls first , DC should be restricted below 160, that score will be gatable
- If MI bats first then it need to score atleast 180 that will par score on the ground.
- Against the openers of DC - P Shaw , S Dhawan, TA boult and JJ Bumrah should bowl.
- P Shaw struggles against the pacerswhen ball pitches on short of good length on off stump.
- TA Boult and JJ Bumrah bothcan bowl around 135+Kmph.
- IF MI bowlers bowl into the stumps S Dhawan always struggles as he always look for room outside off stump.
- R Ashwin is very important player for DC and He could be a potential Party Spoiler for MI.
- To tackle Ashwin MI batsmen need to play him safely by not giving him wickets away.

