

Strategy Analysis For MI to win

Against DC

Things taken into consideration & question's that are answered are following :

1. Toss Records (Whether to field or Bat first).
2. Par Score/Winning score if Bat first.
3. Match-ups : What type of bowler has dismissed whom most of times.
4. Total Contribution of DC players against MI
5. Runs leaked by MI against DC in different patches of over's.
6. Which bowler to attack & whom to defend?

1. Records at Dubai for IPL 2020:

```
In [5]: ## Record at Dubai stadium in 2020 ipl season
Dubai_2020 = pd.read_csv('C:/Users/SONY/Desktop/IPL/Dubai.csv')
Dubai_2020
```

```
Out[5]:
```

	Matchno	Location	Toss	TossDecision	Winner	Score 1st inning	Score 2nd inning	Winner Score
0	1	Dubai	KXIP	Field	DC	157	157	157
1	2	Dubai	SRH	Field	RCB	163	153	163
2	3	Dubai	RCB	Field	KXIP	206	109	206
3	4	Dubai	CSK	Field	DC	175	131	175
4	5	Dubai	MI	Field	RCB	201	201	201
5	6	Dubai	RR	Field	KKR	174	137	174
6	7	Dubai	SRH	Bat	SRH	164	157	164
7	8	Dubai	KXIP	Bat	CSK	178	181	181
8	9	Dubai	RCB	Field	DC	196	137	196
9	10	Dubai	SRH	Bat	SRH	201	132	201
10	11	Dubai	RCB	Bat	RCB	169	132	169
11	12	Dubai	SRH	Bat	RR	158	163	163

2. Record of Matches in which team which won toss,had won the match.

```
# Matches with the one who won Toss has won the match
```

```
Out[10]:
```

	Toss	TossDecision	Winner	Winner Score
6	SRH	Bat	SRH	164
9	SRH	Bat	SRH	201
10	RCB	Bat	RCB	169
12	CSK	Bat	CSK	167
13	DC	Bat	DC	161
17	SRH	Field	SRH	156
21	CSK	Field	CSK	178
22	MI	Field	MI	111

Looking at recent 3 Matches at Dubai the team that has won toss & fielded first have won.

Hence, the if we win the toss we should field first.

Toss Decision & average winning/par score

```
In [9]: ## What's an ideal winning score/par score at Dubai?
```

```
Average winning/par score at Dubai is = 172.0
```

If Batting first, average winning/par score should be anywhere above 170.

MATCH UPS

```
## Match-ups for DC batsman (Which type of bowler to bowl to whom?)
```

For MI vs DC matches last 2 season h2h

```
In [12]: player('S Dhawan')
```

```
Dismissal record of S Dhawan :          bowler dismissal_kind
165300  HH Pandya                caught
```

```
In [13]: player('SS Iyer')
```

```
Dismissal record of SS Iyer :          bowler dismissal_kind
163330  M Markande                caught
165231  MJ McClenaghan            caught
```

```
In [14]: player('RR Pant')
```

```
Dismissal record of RR Pant :          bowler dismissal_kind
152482  KH Pandya                caught
163378  KH Pandya                caught
```

```
In [15]: player('AR Patel')
```

```
Dismissal record of AR Patel :          bowler dismissal_kind
165314  JJ Bumrah                caught
172986  JJ Bumrah                run out
```

```
In [16]: player('P Shaw')
```

```
Dismissal record of P Shaw :          bowler dismissal_kind
165217  MJ McClenaghan            caught
172933  RD Chahar                 caught
```

For Stoinis & Rahane

```
In [18]: other('MP Stoinis')
```

Dismissal record of MP Stoinis :			bowler dismissal_kind
5162	MJ McClenaghan	caught	
162269	JJ Bumrah	caught	
172148	SL Malinga	caught	

```
In [19]: other('R Ashwin')
```

Dismissal record of R Ashwin :			bowler dismissal_kind
60870	Harbhajan Singh	caught	
72577	SL Malinga	run out	
83845	SL Malinga	caught	
91434	Harbhajan Singh	caught	
108394	KA Pollard	caught	
135626	SL Malinga	caught	
136353	MJ McClenaghan	caught	

```
In [20]: other('AM Rahane')
```

Dismissal record of AM Rahane :			bowler dismissal_kind
434	TG Southee	caught	
13811	MG Johnson	caught	
75192	KA Pollard	caught	
89047	DS Kulkarni	caught	
95421	PP Ojha	run out	
106033	DS Kulkarni	caught	
124877	S Gopal	caught	
130197	R Vinay Kumar	caught	
142983	MJ McClenaghan	caught	
155312	MJ McClenaghan	caught	
161640	HH Pandya	caught	
171229	KH Pandya	caught	
173404	RD Chahar	caught	

Which overs does MI conceded most runs?

```
## Which over does DC score most,the phase in which MI can try to concede minimum runs?
```

```
Powerplay runs overs 1-6 for DC = 49.0  
Middleover runs overs 7-14 for DC = 61.0  
Death over runs overs 15-20 for DC = 74.0
```

MI have conceded most runs in death overs at an average of 74 in last 4 games against DC.Hence,death overs must be bowled by best bowlers of MI.

Economy Rate of MI bowlers in Death Overs

```
] : ## Who conceded Least runs for MI in death overs,retrieving for current bowlers  
### Economy of MI bowlers in Death  
miplayer('JJ Bumrah')  
miplayer('KH Pandya')  
miplayer('HH Pandya')  
miplayer('KA Pollard')  
miplayer('RD Chahar')
```

```
Economy of JJ Bumrah in death overs against DC is = 8.9  
Economy of KH Pandya in death overs against DC is = 7.6  
Economy of HH Pandya in death overs against DC is = 11.5  
Economy of KA Pollard in death overs against DC is = 5.8  
Economy of RD Chahar in death overs against DC is = nan
```

```
In [32]: ## Trent Boult record in death overs  
dcplayer('TA Boult')
```

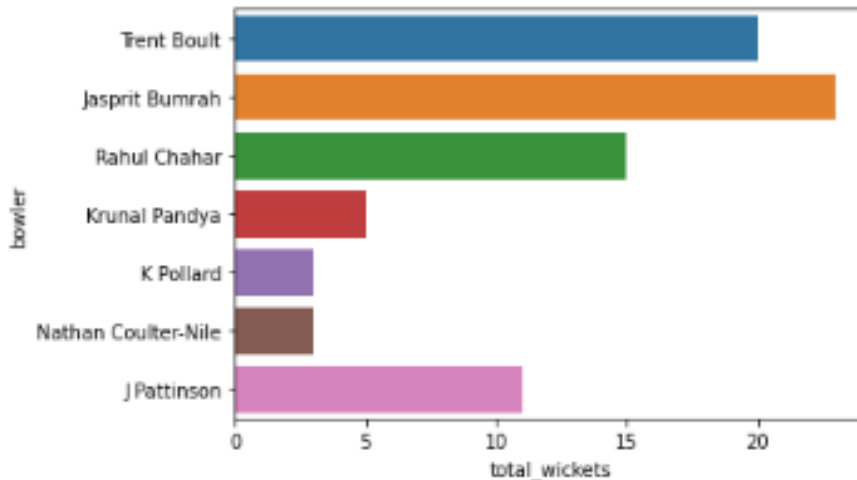
```
Economy of TA Boult in death overs against DC is = 9.3
```

Trent boult & bumrah have best economy at death,however krunal and pollard have low economy as well but its because they have bowled hardly 1-2 overs in death.

Who has been best for Mumbai Indians at Death this season?

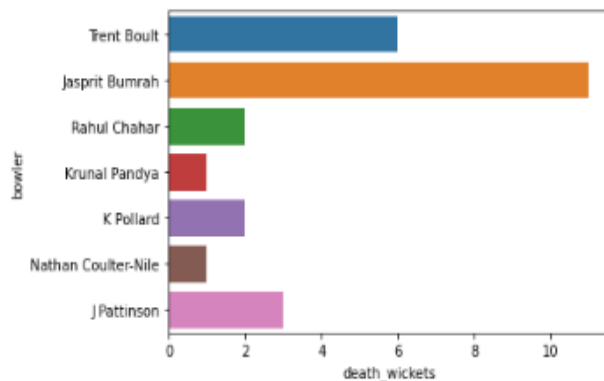
```
In [34]: ## Most wickets for MI season 2020
sns.barplot('total_wickets', 'bowler', data=MI_2020)
```

```
Out[34]: <matplotlib.axes._subplots.AxesSubplot at 0xb2f6d90>
```



```
In [35]: ## Most wickets for MI in death overs season 2020
sns.barplot('death_wickets', 'bowler', data=MI_2020)
```

```
Out[35]: <matplotlib.axes._subplots.AxesSubplot at 0xb3c7070>
```



As Delhi have higher scoring rate at death overs, however taking wickets at death is of utmost importance to restrict DC to less total if they bat First. So taking wickets at death would be ideal. According to data Trent boult & Bumrah are best to bowl at death as taking wickets also slows down the scoring rate.

Match-ups for MI batsman against DC

Match-ups for MI batsman (Which bowler to attack & which bowler to defend)

Dismissal record of RG Sharma : bowler dismissal_kind

152395 TA Boult caught

163487 HV Patel caught

165352 I Sharma caught

Dismissal record of AS Yadav : bowler dismissal_kind

163404 S Lamichhane caught

165362 I Sharma run out

172817 AR Patel run out

172849 K Rabada caught

Dismissal record of Ishan Kishan : bowler dismissal_kind

163439 A Mishra caught

Dismissal record of HH Pandya : bowler dismissal_kind

152406 TA Boult caught

165400 AR Patel caught

172877 K Rabada caught

Dismissal record of KA Pollard : bowler dismissal_kind

163457 S Lamichhane caught

165397 K Paul caught

Dismissal record of KH Pandya : bowler dismissal_kind

152402 Mohammed Shami caught

165424 TA Boult caught

Dismissal record of Q de Kock : bowler dismissal_kind

165366 I Sharma caught

Apart from 3 dismissal against(Mishra,Lamichanne,AR Patel) out of which 2 are not playing because of injury/transfer,it would be ideal to attack the spinners for MI to gain momentum/score quick runs.

For other bowler's who are having first season with DC(Ashwin)

```
## Checking record of Ashwin against MI
```

```
Avg wickets = 0.7
```

```
Economy Rate of Ashwin against MI = 6.6
```

Although ashwin has a ER below 7, he has avg wickets which is less than 1 (so in avg 0-1 wickets per match). Hence, calculated risk against Ashwin would be ideal to score runs against him.

Rabada's Record against MI (Where does he take most wicket)?

```
### Rabada Record against MI
```

	Rabada	Record against MI	bowler	player_dismissed	over
165433	K Rabada	BCJ Cutting	17		
165446	K Rabada	Yuvraj Singh	19		
172849	K Rabada	AS Yadav	16		
172877	K Rabada	HH Pandya	20		

```
-----  
Economy Rate of Rabada against MI = 8.9
```

Taken all of his wickets in death overs.

Rabada has taken all of his wicket against MI in death overs in last 2 season head to head.

Who has most contribution for DC? How to get them dismissed?

```
## Which player has max. contribution for DC
```

```
SS Iyer runs against MI is = 52
Matches played by SS Iyer against MI is = 4
Average score of SS Iyer against MI = 13.0
The % contribution of SS Iyer in total DC runs = 7.0
-----
RR Pant runs against MI is = 203
Matches played by RR Pant against MI is = 4
Average score of RR Pant against MI = 50.75
The % contribution of RR Pant in total DC runs = 28.0
-----
P Shaw runs against MI is = 40
Matches played by P Shaw against MI is = 3
Average score of P Shaw against MI = 13.33
The % contribution of P Shaw in total DC runs = 7.0
-----
S Dhawan runs against MI is = 79
Matches played by S Dhawan against MI is = 2
Average score of S Dhawan against MI = 39.5
The % contribution of S Dhawan in total DC runs = 21.0
-----
AR Patel runs against MI is = 31
Matches played by AR Patel against MI is = 2
Average score of AR Patel against MI = 15.5
The % contribution of AR Patel in total DC runs = 8.0
```

Pant & Dhawan has highest contribution

- **Pant & dhawan has highest contribution in runs against MI.**

- **However,as seen in above match-ups,dhawan has been dismissed by seamer's in most cases.Also Pant has been dismissed twice by Krunal Pandya.Hence,to dismiss pant it is ideal to bring Krunal to bowl against him.**