



**TATA  
IPL**



# Data Analysis



**IPL**



# IPL Data Analysis Project

```
In [1]: import pandas as pd
import plotly.express as px
import plotly.graph_objects as go

In [2]: data=pd.read_csv("ipl2022.csv")

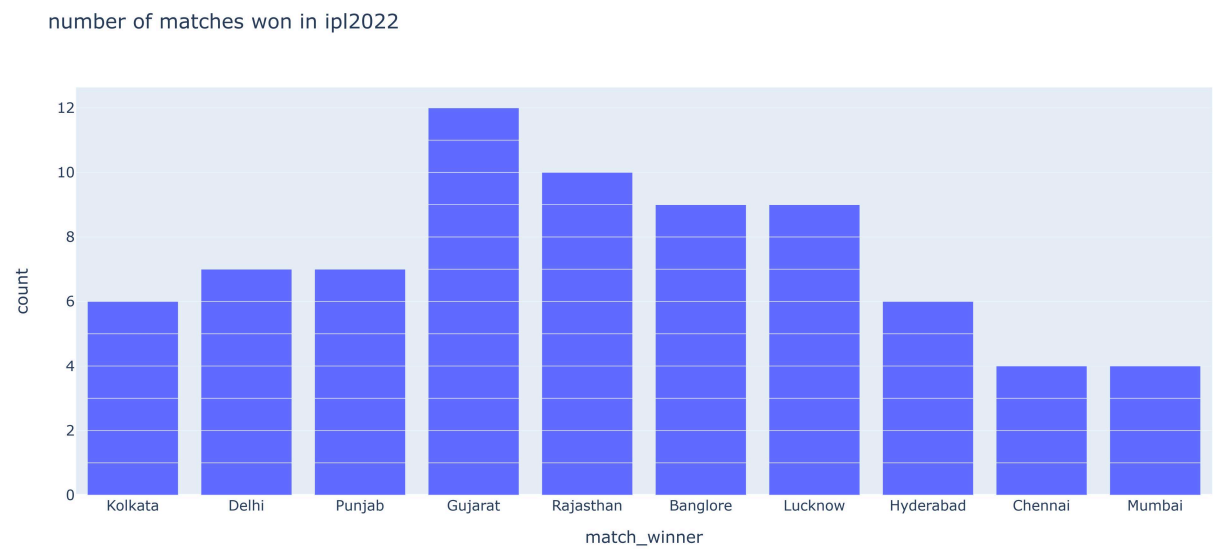
In [3]: data
```

Out[3]:

	match_id	date	venue	team1	team2	stage	toss_winner	toss_decision	first_ings_score	first_ings_wkts	second_ings_score	second_ings_wkts	match_winner	won_by	n
0	1	March 26,2022	Wankhede Stadium, Mumbai	Chennai	Kolkata	Group	Kolkata	Field	131	5	133	4	Kolkata	Wickets	
1	2	March 27,2022	Brabourne Stadium, Mumbai	Delhi	Mumbai	Group	Delhi	Field	177	5	179	6	Delhi	Wickets	
2	3	March 27,2022	Dr DY Patil Sports Academy, Mumbai	Banglore	Punjab	Group	Punjab	Field	205	2	208	5	Punjab	Wickets	
3	4	March 28,2022	Wankhede Stadium, Mumbai	Gujarat	Lucknow	Group	Gujarat	Field	158	6	161	5	Gujarat	Wickets	
4	5	March 29,2022	Maharashtra Cricket Association Stadium,Pune	Hyderabad	Rajasthan	Group	Hyderabad	Field	210	6	149	7	Rajasthan	Runs	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
69	70	May 22,2022	Wankhede Stadium, Mumbai	Hyderabad	Punjab	Group	Hyderabad	Bat	157	8	160	5	Punjab	Wickets	
70	71	May 24,2022	Eden Gardens, Kolkata	Gujarat	Rajasthan	Playoff	Gujarat	Field	188	6	191	3	Gujarat	Wickets	
71	72	May 25,2022	Eden Gardens, Kolkata	Banglore	Lucknow	Playoff	Lucknow	Field	207	4	193	6	Banglore	Runs	
72	73	May 27,2022	Narendra Modi Stadium, Ahmedabad	Banglore	Rajasthan	Playoff	Rajasthan	Field	157	8	161	3	Rajasthan	Wickets	
73	74	May 29,2022	Narendra Modi Stadium, Ahmedabad	Gujarat	Rajasthan	Final	Rajasthan	Bat	130	9	133	3	Gujarat	Wickets	

## number of matches won by each team in ipl 2022

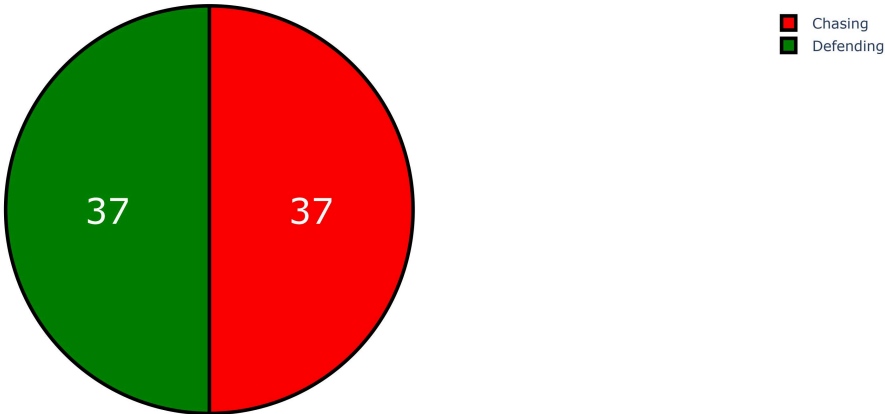
```
In [4]: Figure=px.bar(data,x=data["match_winner"],title="number of matches won in ipl2022")
Figure.show()
```



# MOST MATCH WON BY >>>>> "GUJARAT"

```
In [ ]:
In [5]: data["won_by"]=data["won_by"].map({'Wickets':'Chasing', 'Runs':'Defending'})
won_by =data['won_by'].value_counts()
label=won_by.index
counts=won_by.values
colors=['red','green']
fig=go.Figure(data=[go.Pie(labels=label,values=counts)])
fig.update_layout(title_text="Number of matches won by defending or chasing")
fig.update_traces(hoverinfo="label+percent",textinfo="value",textfont_size=30,marker=dict(colors=colors,line=dict(color="black",width=3)))
```

Number of matches won by defending or chasing

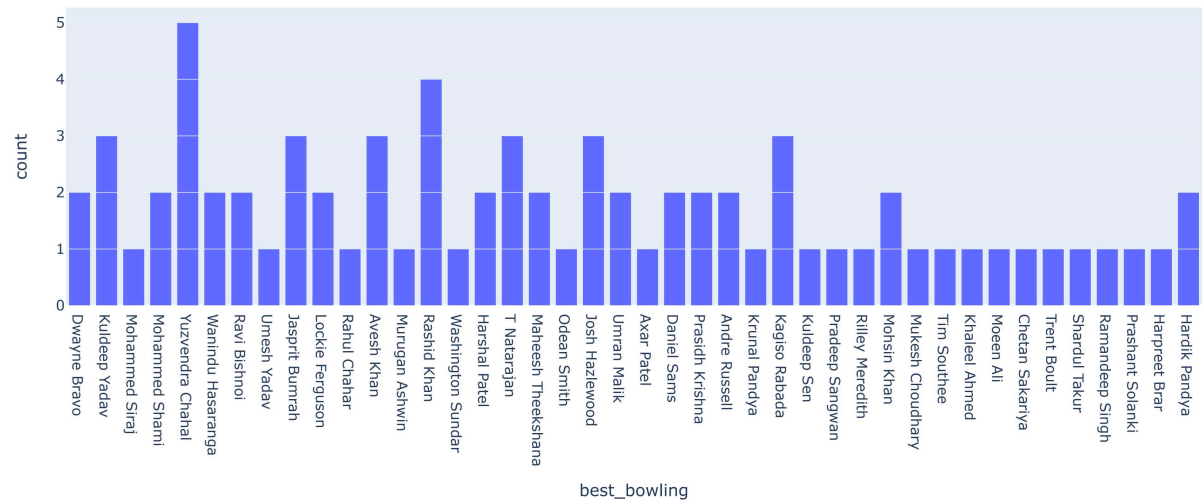


CHASING = 37 WINS

DEFENDING = 37 WINS

```
In [6]: figure = px.bar(data,x=data["best_bowling"],title="best bolwer in ipl 2022")
figure.show()
```

best bolwer in ipl 2022

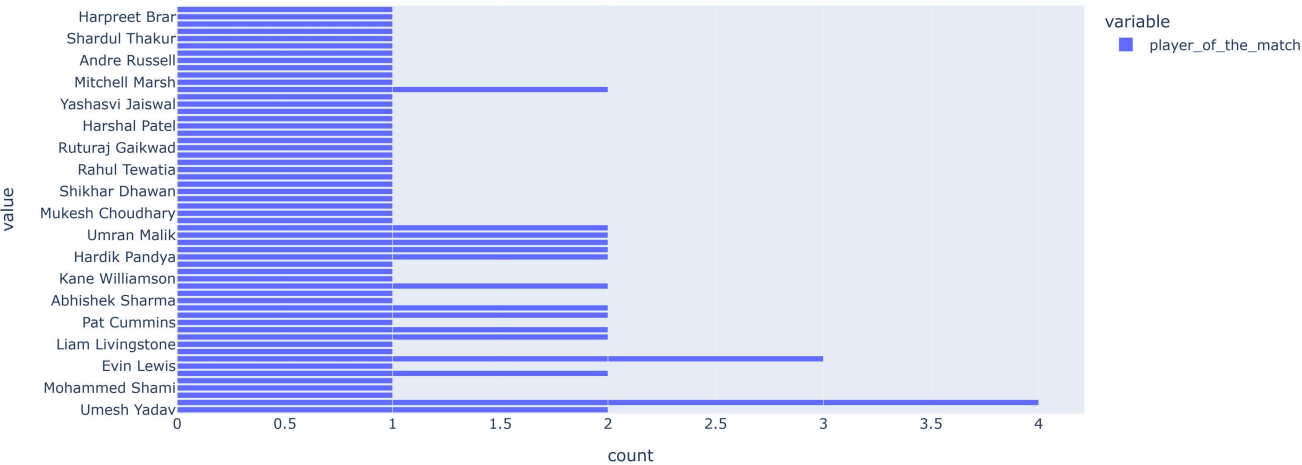


BEST BOWLER IPL 2022 ----->>>> YUZVENDRA CHAHAL

```
In [7]: figure=px.bar(data,x=['player_of_the_match'],title="MOST PLAYER OF THE MATCH AWARD")
figure.show()
```



MOST PLAYER OF THE MATCH AWARD

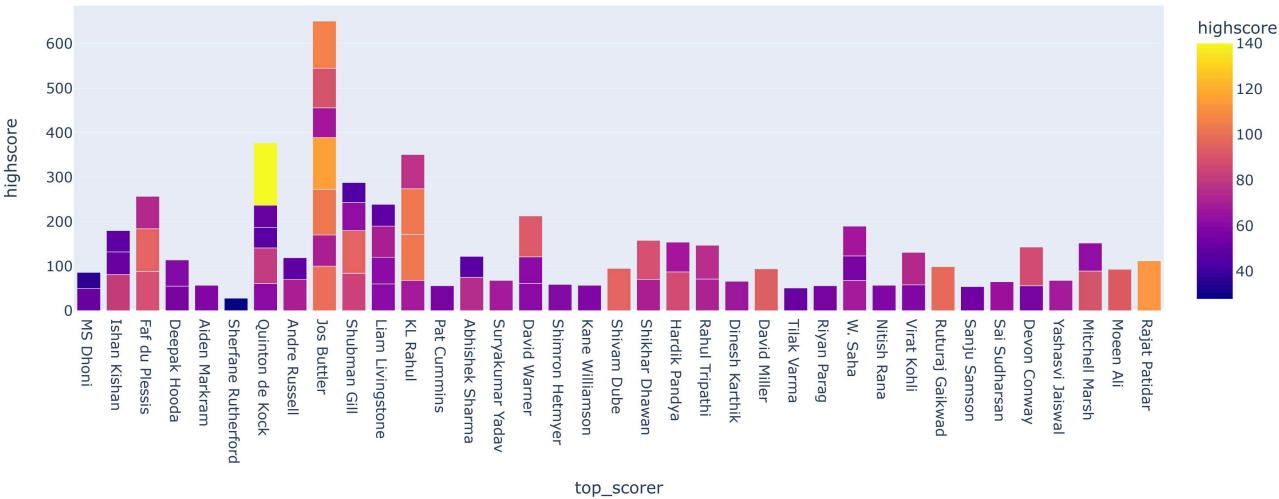


MOST PLAYER OF THE MATCH ----->>>> MOHAMMED SHAMI

```
In [8]: figure=px.bar(data,x=data["top_scorer"],
                    y=data["highscore"],
                    color=data['highscore'],title="TOP SCORER IN IPL 2022")
figure.show()
```



TOP SCORER IN IPL 2022



TOP SCORER IN IPL 2022 ---->>>> JOS BUTTLER

```
In [ ]:
In [ ]:
```