IPL DATA ANALYSIS PROJECT

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

In [2]:
```
data = pd.read_csv("IPL 2022 dataset.csv")
```

In [3]:
```
data
```

Out[3]:

	match_id	date	venue	team1	team2	stage	toss_winner	toss_decision	first_ings_score	first_ings_wkts	s
0	1	March 26,2022	Wankhede Stadium, Mumbai	Chennai	Kolkata	Group	Kolkata	Field	131	5	
1	2	March 27,2022	Brabourne Stadium, Mumbai	Delhi	Mumbai	Group	Delhi	Field	177	5	
2	3	March 27,2022	Dr DY Patil Sports Academy, Mumbai	Banglore	Punjab	Group	Punjab	Field	205	2	
3	4	March 28,2022	Wankhede Stadium, Mumbai	Gujarat	Lucknow	Group	Gujarat	Field	158	6	
4	5	March	Maharashtra Cricket	Hyderabad	Rajasthan	Group	Hyderabad	Field	210	6	

Number of matches won by each team in IPL

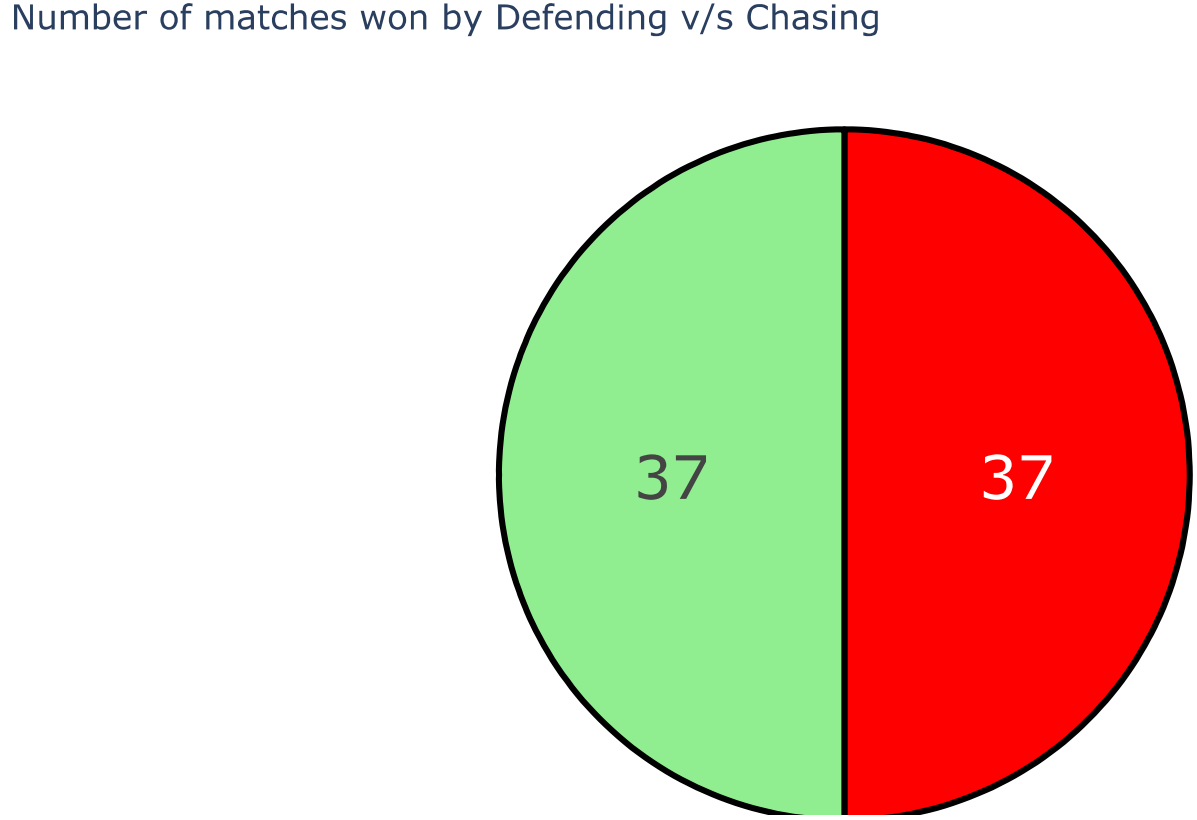
In [4]:
```
data.columns
```

Out[4]:
```
Index(['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',
       'margin', 'player_of_the_match', 'top_scorer', 'highscore',
       'best_bowling', 'best_bowling_figure'],
      dtype='object')
```

In [5]:
```
figure=px.bar(data,x=data['match_winner'],title='Number of matches won in IPL 2022')
figure.show()
```

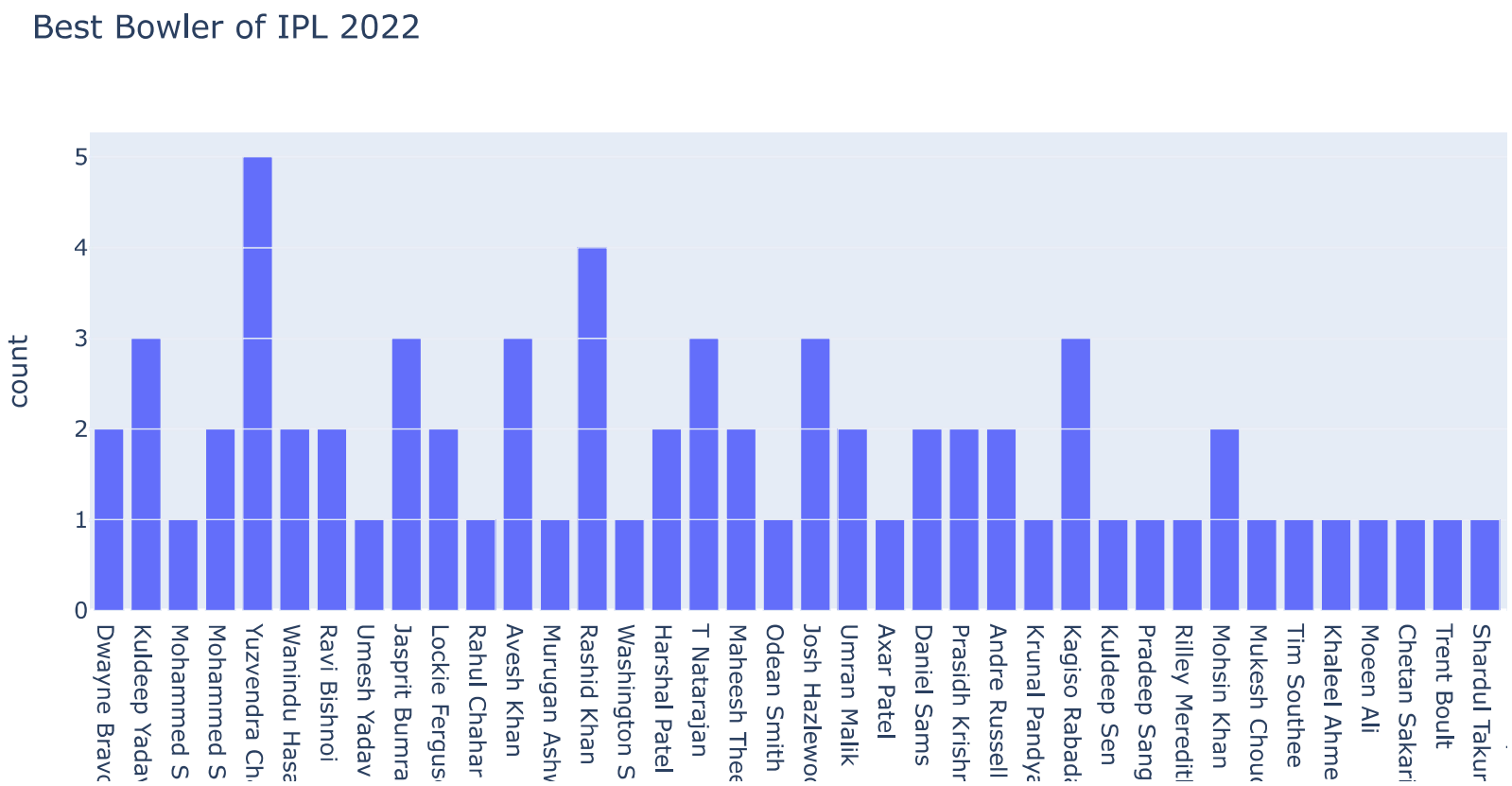
Number of matches won by Defenders v/s Chasers

In [6]:
```
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','lightgreen']
fig=go.Figure(data=[go.Pie(labels=label,values=counts)])
fig.update_layout(title_text="Number of matches won by Defending v/s Chasing")
fig.update_traces(hoverinfo='label+percent',textinfo='value',textfont_size=30,marker=dict(colors=colors,line=
fig.show()
```



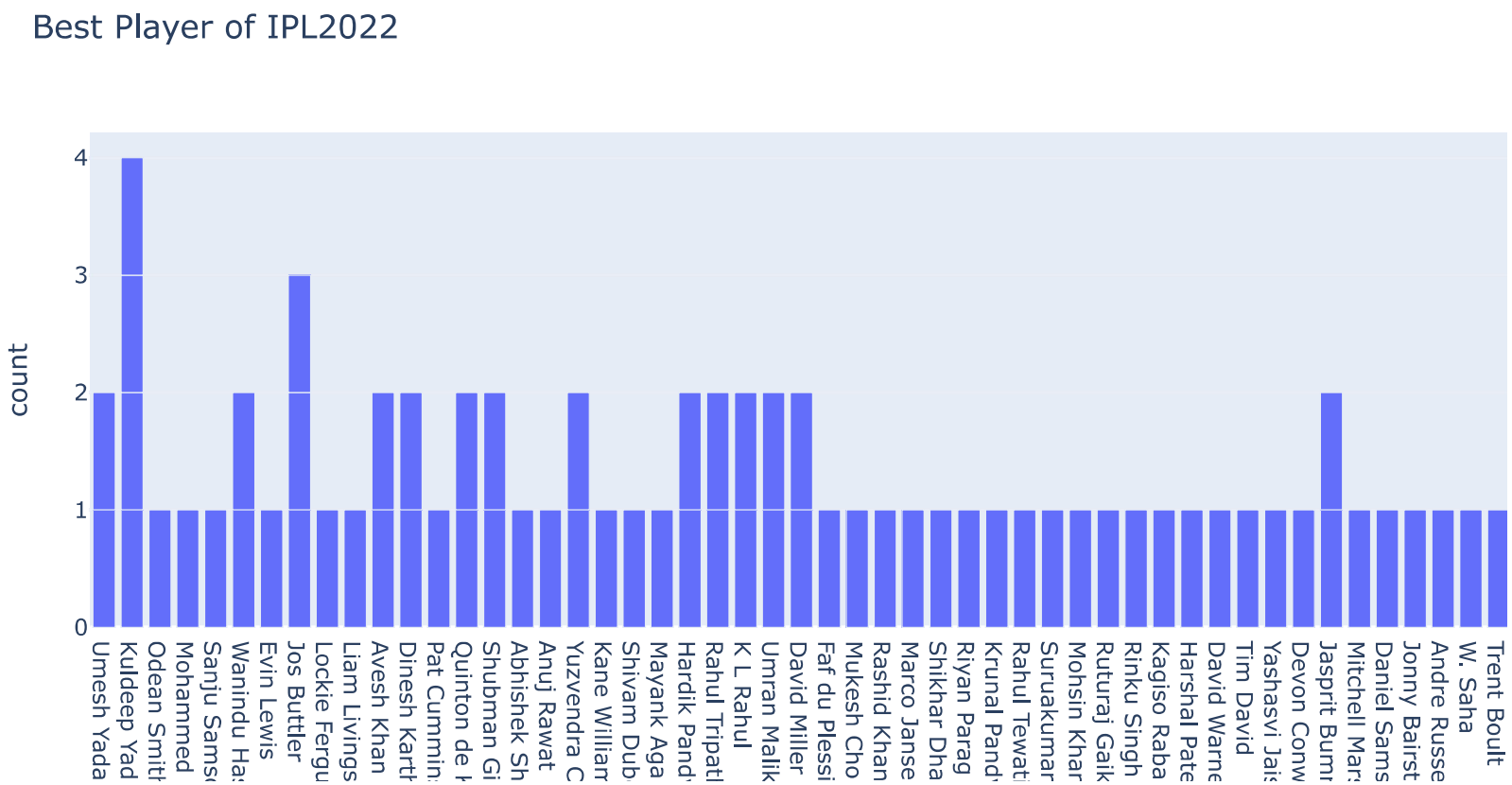
Best Bowler

In [7]:
```
figure=px.bar(data,x=data['best_bowling'],title="Best Bowler of IPL 2022")
figure.show()
```



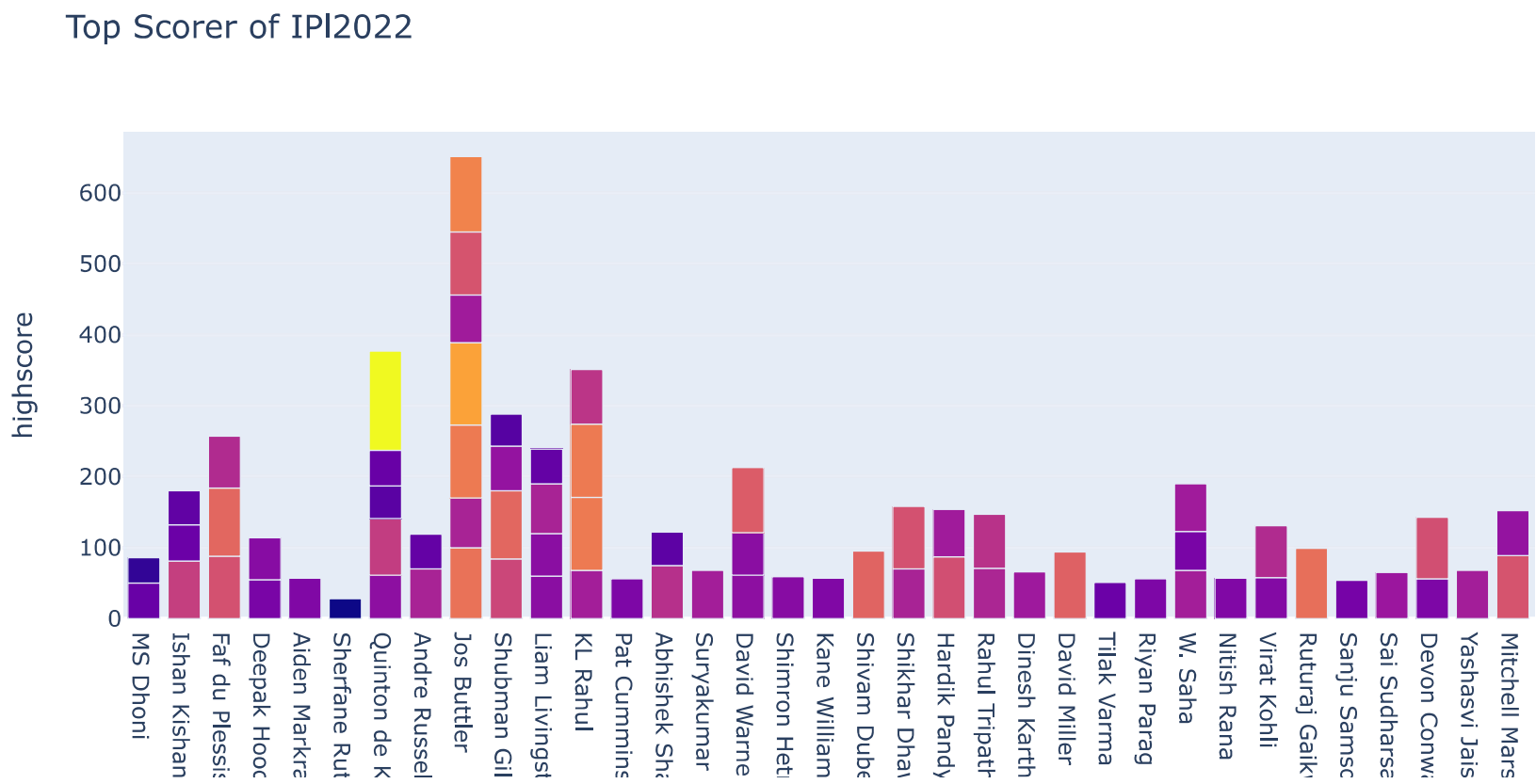
Best Player

In [8]:
```
figure=px.bar(data,x=data['player_of_the_match'],title='Best Player of IPL2022')
figure.show()
```



Top Scorer

In [9]:
```
figure=px.bar(data,x=data['top_scorer'],y=data['highscore'],color=data['highscore'],title = 'Top Scorer of IP
figure.show()
```



In [ ]:
```

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