

Dropping irrelevant Data

```
[10]: df=df.drop(['player_name'],axis=1)

[11]: df.head()

[11]: serial club position fouls_committed fouls_suffered red yellow minutes_played match_played

0 1 Sporting CP Midfielder 23 17 2 0 534 6

1 2 Villarreal Midfielder 19 17 3 1 1046 12
```

```
        Z
        2
        Man. Lity
        Michieler
        19
        4
        2
        0
        642
        IU

        3
        2
        Salzburg
        Midfielder
        19
        3
        2
        0
        649
        8

        4
        5
        Club Brugge
        Midfielder
        18
        3
        4
        0
        407
        5
```

Necessary Plotting

import matplotlib.pyplot as plt import seaborn as sns

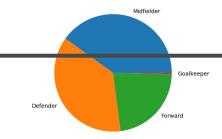
Plot for Fouls committed

```
[35]: Q=df['fouls_committed'].value_counts()
P=df['olub'].value_counts()
```



Plot for Position

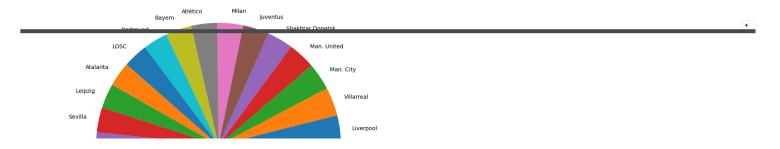
```
plt.pie(df['position'].value_counts().values,labels=df['position'].value_counts().index)
plt.show()
```

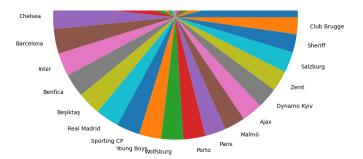


Plot for Teams played

```
fig = plt.figure(figsize = (10, 10))
plt.pie(df['club'].value_counts().value_slabels=df['club'].value_counts().index)
plt.show()

#fig = plt.figure(figsize = (10, 5))
#plt.bar(df['fouls_committed'].value_counts().values,df['position'].value_counts().values,width=0.5)
```





+ Code + Markdown

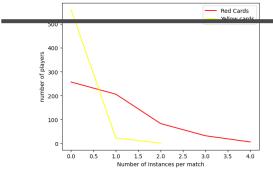
Cross Plot for type of cards

```
[13]: A=df['red'].value_counts()
B=df['yellow'].value_counts()

[13]: 0 560
1 23
2 1
Name: yellow, dtype: int64

[25]: fig, cards=plt.subplots()
cards.plot(A.index, A.values.color='red')
cards.plot(A.index, B.values.color='red')
plt.legend(['Red Cards'', "Yellow cards'],loc-0, frameon=True)
plt.valabel('Number of Instances per match')
plt.ylabel('number of players')

[25]: Text(0, 0.5, 'number of players')
```

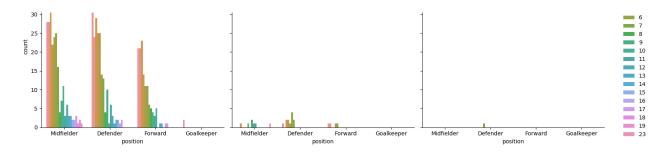


Cross Plotting betweeen Position and Yellow Cards

Cross Plot betweeen Position played and number of fouls committed

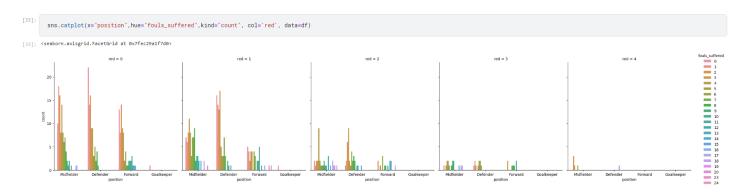
Goalkeeper

der Forward position



matplotlib

Cross Plot betweeen Position played and number of fouls suffered



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