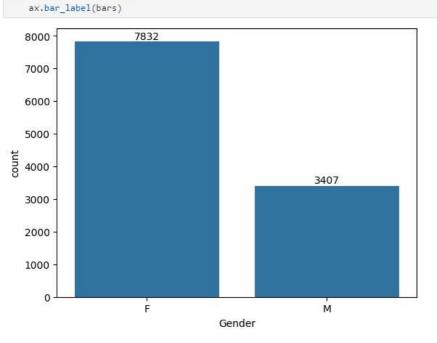
```
# plotting a bar chart for Gender and it's count
ax = sns.countplot(x = 'Gender',data = df)
for bars in ax.containers:
```



```
sales_gen = df.groupby(['Gender'], as_index=False)['Amount'].sum().sort_values(by='Amount', ascending=False)
sns.barplot(x = 'Gender',y= 'Amount' ,data = sales_gen)

<Axes: xlabel='Gender', ylabel='Amount'>

1e7

6 -
5 -
```

м

Gender

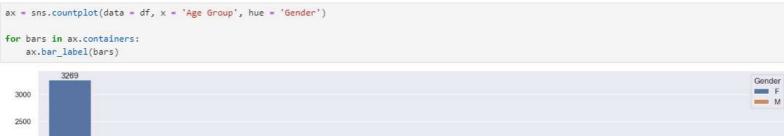
plotting a bar chart for gender vs total amount

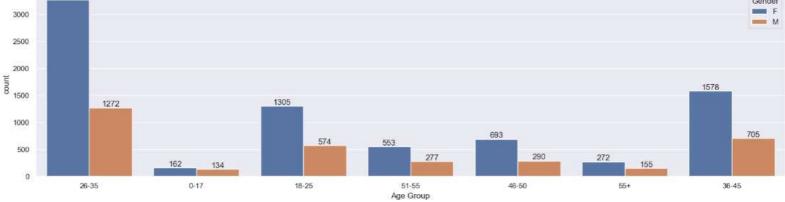
Amount 4

3

2

1





```
sales_age = df.groupby(['Age Group'], as_index=False)['Amount'].sum().sort_values(by='Amount', ascending=False)
sns.barplot(x = 'Age Group',y= 'Amount', data = sales_age)

<Axes: xlabel='Age Group', ylabel='Amount'>

107
40
35
30
16
10
05
```

46-50 Age Group 51-55

0-17

18-25

Total Amount vs Age Group

26-35

36-45

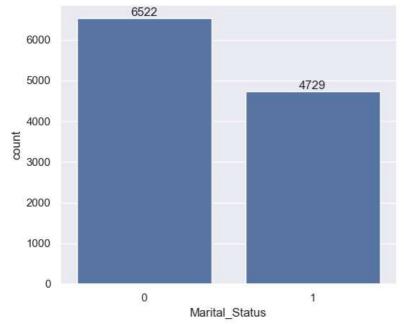
0.0

```
sales_state = df.groupby(['State'], as_index=False)['Orders'].sum().sort_values(by='Orders', ascending=False).head(10)
sns.set(rc={'figure.figsize':(15,5)})
sns.barplot(data = sales_state, x = 'State',y= 'Orders')
<Axes: xlabel='State', ylabel='Orders'>
   5000
   4000
   3000
   2000
   1000
      0
           Uttar Pradesh
                           Maharashtra
                                             Karnataka
                                                               Delhi
                                                                          Madhya Pradesh Andhra PradeshHimachal Pradesh
                                                                                                                               Kerala
                                                                                                                                              Haryana
                                                                                                                                                               Gujarat
```

State

total number of orders from top 10 states

```
ax = sns.countplot(data = df, x = 'Marital_Status')
sns.set(rc={'figure.figsize':(7,5)})
for bars in ax.containers:
    ax.bar_label(bars)
```



```
sales_state = df.groupby(['Marital_Status', 'Gender'], as_index=False)['Amount'].sum().sort_values(by='Amount', ascending=False)

sns.set(rc={'figure.figsize':(6,5)})
sns.barplot(data = sales_state, x = 'Marital_Status',y= 'Amount', hue='Gender')

<Axes: xlabel='Marital_Status', ylabel='Amount'>

1e7

Gender

F

M

Gender
```

1

Marital_Status

3

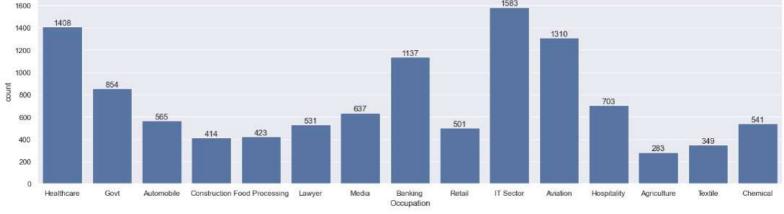
Amount

0

```
sns.set(rc={'figure.figsize':(20,5)})
ax = sns.countplot(data = df, x = 'Occupation')

for bars in ax.containers:
    ax.bar_label(bars)

1600
1400
1200
1137
1583
```



```
sns.set(rc={'figure.figsize':(20,5)})
sns.barplot(data = sales_state, x = 'Occupation',y= 'Amount')

<Axes: xlabel='Occupation', ylabel='Amount'>

14

12

10

06
```

Automobile

Occupation

Chemical

Lawyer

Retail Food Processing Construction

Agriculture

Textile

Media

sales_state = df.groupby(['Occupation'], as_index=False)['Amount'].sum().sort_values(by='Amount', ascending=False)

0.2

IT Sector

Healthcare

Banking

Govt

Hospitality

Aviation

sales_state = df.groupby(['Product_Category'], as_index=False)['Amount'].sum().sort_values(by='Amount', ascending=False).head(10)

```
sns.set(rc={'figure.figsize':(20,5)})
sns.barplot(data = sales_state, x = 'Product_ID',y= 'Orders')

<Axes: xlabel='Product_ID', ylabel='Orders'>

120
100
80
40
```

P00114942 P00025442 Product_ID P00117942

P00145042

P00044442

P00110842

sales_state = df.groupby(['Product_ID'], as_index=False)['Orders'].sum().sort_values(by='Orders', ascending=False).head(10)

20

0

P00265242

P00110942

P00237542

P00184942

```
# top I0 most sold products (same thing as above)
fig1, ax1 = plt.subplots(figsize=(12,7))
df.groupby('Product_ID')['Orders'].sum().nlargest(10).sort_values(ascending=False).plot(kind='bar')
<Axes: xlabel='Product_ID'>
```

