

jhsknleqj

February 22, 2025

```
[43]: # import all the required libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
[44]: # load all the dataset
data=pd.read_csv("/content/Amazon Sale Report.csv")
df=pd.DataFrame(data)
df
```

```
<ipython-input-44-48eb2e622eb9>:2: DtypeWarning: Columns (21,23) have
mixed types. Specify dtype option on import or set low_memory=False.
data=pd.read_csv("/content/Amazon Sale Report.csv")
```

```
[44]:
```

	index	Order ID	Date	Status \
0	0	405-8078784-5731545	04-30-22	Cancelled
1	1	171-9198151-1101146	04-30-22	Shipped - Delivered to Buyer
2	2	404-0687676-7273146	04-30-22	Shipped 3 3 403-9615377-8133951
4	4	407-1069790-7240320	04-30-22	Cancelled Shipped
...
112452	112452	408-0639045-1056304	06-12-22	Shipped
112453	112453	408-0639045-1056304	06-12-22	Shipped
112454	112454	404-4060831-3562702	06-12-22	Shipped
112455	112455	402-8773996-8205915	06-12-22	Shipped
112456	112456	406-9793868-4020356	06-12-22	Shipped - Delivered to Buyer

	Fulfilment	Sales Channel	ship-service-level	Style \
0	Merchant	Amazon.in	Standard	SET389
1	Merchant	Amazon.in	Standard	JNE3781 2 Amazon
		Amazon.in	Expedited	JNE3371
3	Merchant	Amazon.in	Standard	J0341 4 Amazon
		Amazon.in	Expedited	JNE3671
...
112452	Amazon	Amazon.in	Expedited	J0372
112453	Amazon	Amazon.in	Expedited	SET203
112454	Amazon	Amazon.in	Expedited	JNE3294
112455	Amazon	Amazon.in	Expedited	JNE3674
112456	Merchant	Amaz	NaN	NaN

	SKU	Category	...	currency	Amount	ship-city	\
0	SET389-KR-NP-S	Set	...	INR	647.62	MUMBAI	1 JNE3781-KR-XXXL kurta
...	INR	406.00	BENGALURU	2	JNE3371-KR-XL kurta	...	INR 329.00 NAVI MUMBAI
3	J0341-DR-L	Western Dress	...	INR	753.33	PUDUCHERRY	
4	JNE3671-TU-XXXL	Top	...	INR	574.00	CHENNAI	
...	
112452	J0372-SKD-XXL	Set	...	INR	1044.00	SIMAR	SIR
112453	SET203-KR-DPT-XXL	Set	...	INR	429.00	SIMAR	SIR
112454	JNE3294-KR-XS	kurta	...	INR	432.00	BENGALURU	
112455	JNE3674-TU-XXL	Top	...	INR	574.00	MALUR	
112456	NaN	NaN	...	NaN	NaN	NaN	

	ship-state	ship-postal-code	ship-country	\
0	MAHARASHTRA	400081.0	IN	
1	KARNATAKA	560085.0	IN	
2	MAHARASHTRA	410210.0	IN	
3	PUDUCHERRY	605008.0	IN	
4	TAMIL NADU	600073.0	IN	
...	
112452	Gujarat	362255.0	IN	
112453	Gujarat	362255.0	IN	
112454	KARNATAKA	560046.0	IN	
112455	KARNATAKA	563130.0	IN	
112456	NaN	NaN	NaN	

	promotion-ids	B2B	\
0	NaN	False	
1	Amazon PLCC Free-Financing Universal Merchant	...	False
2	IN Core Free Shipping	2015/04/08 23-48-5-108	True
3	NaN	False	
4	NaN	False	
...	
112452	IN Core Free Shipping	2015/04/08 23-48-5-108	False
112453	IN Core Free Shipping	2015/04/08 23-48-5-108	False

112454	IN Core Free Shipping
	2015/04/08 23-48-5-108
	False
112455	IN Core Free Shipping
	2015/04/08 23-48-5-108
	False
112456	NaN NaN

```

fulfilled-by Unnamed: 22
0      Easy Ship    NaN
1      Easy Ship    NaN
2              NaN    NaN
3      Easy Ship    NaN
4              NaN    NaN
...
112452      NaN    False
112453      NaN    False
112454      NaN    False
112455      NaN    False 112456      NaN    NaN

```

[112457 rows x 24 columns]

```
[50]: # check the information
df.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 112457 entries, 0 to 112456
Data columns (total 25 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   index                                112457 non-null  int64
1   Order ID                             112457 non-null  object
2   Date                                 112457 non-null  datetime64[ns]
3   Status                               112457 non-null  object
4   Fulfilment                           112457 non-null  object
5   Sales Channel                         112457 non-null  object
6   ship-service-level                   112456 non-null  object
7   Style                                112456 non-null  object
8   SKU                                  112456 non-null  object
9   Category                             112456 non-null  object
10  Size                                 112456 non-null  object

```

```

11 ASIN                112456 non-null
                        object
12 Courier Status      106287 non-null
                        object
13 Qty                112456 non-null
                        float64
14 currency            105629 non-null
                        object
15 Amount              105629 non-null
                        float64
16 ship-city           112429 non-null
                        object
17 ship-state          112429 non-null
                        object
18 ship-postal-code    112429 non-null
                        float64
19 ship-country        112429 non-null
                        object
20 promotion-ids       70351 non-null object
21 B2B                 112456 non-null
                        object
22 fulfilled-by        35274 non-null object
23 Unnamed: 22         63406 non-null object
24 month               112457 non-null
                        int32

```

```

dtypes: datetime64[ns](1), float64(3), int32(1), int64(1),
object(19) memory usage: 21.0+ MB

```

```

[51]: # show the first 5 data
df.head(5)

```

```

[51]:   index      Order ID      Date      Status \
0      0  405-8078784-5731545  2022-04-30Cancelled
1      1  171-9198151-1101146  2022-04-30 Shipped - Delivered to Buyer
2      2  404-0687676-7273146  2022-04-30Shipped 3   3 403-9615377-
      8133951 2022-04-30   Cancelled
4      4  407-1069790-7240320  2022-04-30Shipped

```

```

Fulfilment Sales Channel ship-service-levelStyle      SKU \
0      Merchant  Amazon.in  Standard  SET389      SET389-KR-NP-S
1      Merchant  Amazon.in  Standard  JNE3781  JNE3781-KR-XXXL 2 Amazon
Amazon.in Expedited JNE3371  JNE3371-KR-XL 3 Merchant Amazon.in
Standard J0341  J0341-DR-L
4      Amazon    Amazon.in      Expedited JNE3671  JNE3671-TU-XXXL

```

```

      Category ... Amount  ship-city ship-state ship-postal-code \
0      Set ... 647.62    MUMBAI MAHARASHTRA    400081.0
1      kurta ... 406.00  BENGALURU  KARNATAKA    560085.0

```

```

2          kurta ... 329.00 NAVI MUMBAI MAHARASHTRA      410210.0
3      Western Dress ... 753.33      PUDUCHERRY PUDUCHERRY 605008.0
4          Top ... 574.00      CHENNAI      TAMIL NADU 600073.0

```

```

      ship-country                                promotion-ids  B2B \
0          IN      NaN False
1          IN Amazon PLCC Free-Financing Universal Merchant ... False
2          IN      IN Core Free Shipping 2015/04/08 23-48-5-108      True
3          IN      NaN False
4          IN      NaN False

```

fulfilled-by Unnamed: 22 month

```

0 Easy Ship NaN      3
1 Easy Ship NaN      3
2 NaN NaN      3
3 Easy Ship NaN      3
4 NaN NaN      3

```

5 rows x 25 columns]

```

[52]: # shape of dataset
      df.shape

```

```

[52]: (112457, 25)

```

```

[55]: # check the null data from dataset
      df.isnull().sum()

```

```

[55]: index      0
      Order ID    0
      Date        0
      Status      0
      Fulfilment  0
      Sales Channel  0
      ship-service-level  0
      Style        0
      SKU          0
      Category     0
      Size         0

```

ASIN	0
Courier Status	0
Qty	0
currency	0
Amount	0
ship-city	0
ship-state	0
ship-postal-code	0
ship-country	0
promotion-ids	0
B2B	0
fulfilled-by	0
month	0

dtype: int64

```
[54]: # remove all the null value from dataset
df["Courier Status"].fillna("Not
conformd",inplace=True)
df["currency"].fillna("INR",inplace=True)
df["Amount"].fillna(0,inplace=True) df["ship-
city"].fillna("No_city",inplace=True) df["ship-
state"].fillna("No_state",inplace=True)
df.dropna(subset=["ship-postal-
code"],inplace=True) df["ship-
country"].fillna("IN",inplace=True)
df["promotion-
ids"].fillna("Not_prometed",inplace=True)
df["fulfilled-by"].fillna("Easy
Ship",inplace=True) df.drop(columns=["Unnamed:
22"],inplace=True )
```

<ipython-input-54-8c4da5a7702e>:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method. The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using

```
'df.method({col: value}, inplace=True)' or df[col] =  
df[col].method(value)
```

instead, to perform the operation inplace on the original object.

```
df["Courier Status"].fillna("Not conformd",inplace=True)
```

<ipython-input-54-8c4da5a7702e>:3: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["currency"].fillna("INR",inplace=True)
```

<ipython-input-54-8c4da5a7702e>:4: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["Amount"].fillna(0,inplace=True)
```

<ipython-input-54-8c4da5a7702e>:5: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-city"].fillna("No_city",inplace=True)
```

<ipython-input-54-8c4da5a7702e>:6: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].fillna("No_state",inplace=True)
```

<ipython-input-54-8c4da5a7702e>:8: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-country"].fillna("IN",inplace=True)
```

<ipython-input-54-8c4da5a7702e>:9: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["promotion-ids"].fillna("Not_promoted",inplace=True)
```

<ipython-input-54-8c4da5a7702e>:10: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["fulfilled-by"].fillna("Easy Ship",inplace=True)
```

1 check number of delivered or non_delivered data

```
[63]: # check the unique value in Status column
df["Status"].unique()
```

```
[63]: array(['Cancelled', 'Shipped - Delivered to Buyer', 'Shipped',
        'Shipped - Returned to Seller', 'Shipped - Rejected by Buyer',
        'Shipped - Lost in Transit', 'Shipped - Out for Delivery',
        'Shipped - Returning to Seller', 'Shipped - Picked Up',
        'Pending',
        'Pending - Waiting for Pick Up', 'Shipped - Damaged',
        'Shipping'], dtype=object)
```

```
[64]: # replace the same meaning value df["Status"].replace("Returning
to Seller","Returned to Seller",inplace=True)
```

<ipython-input-64-fc93549185c1>:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["Status"].replace("Returning to Seller","Returned to
Seller",inplace=True)
```

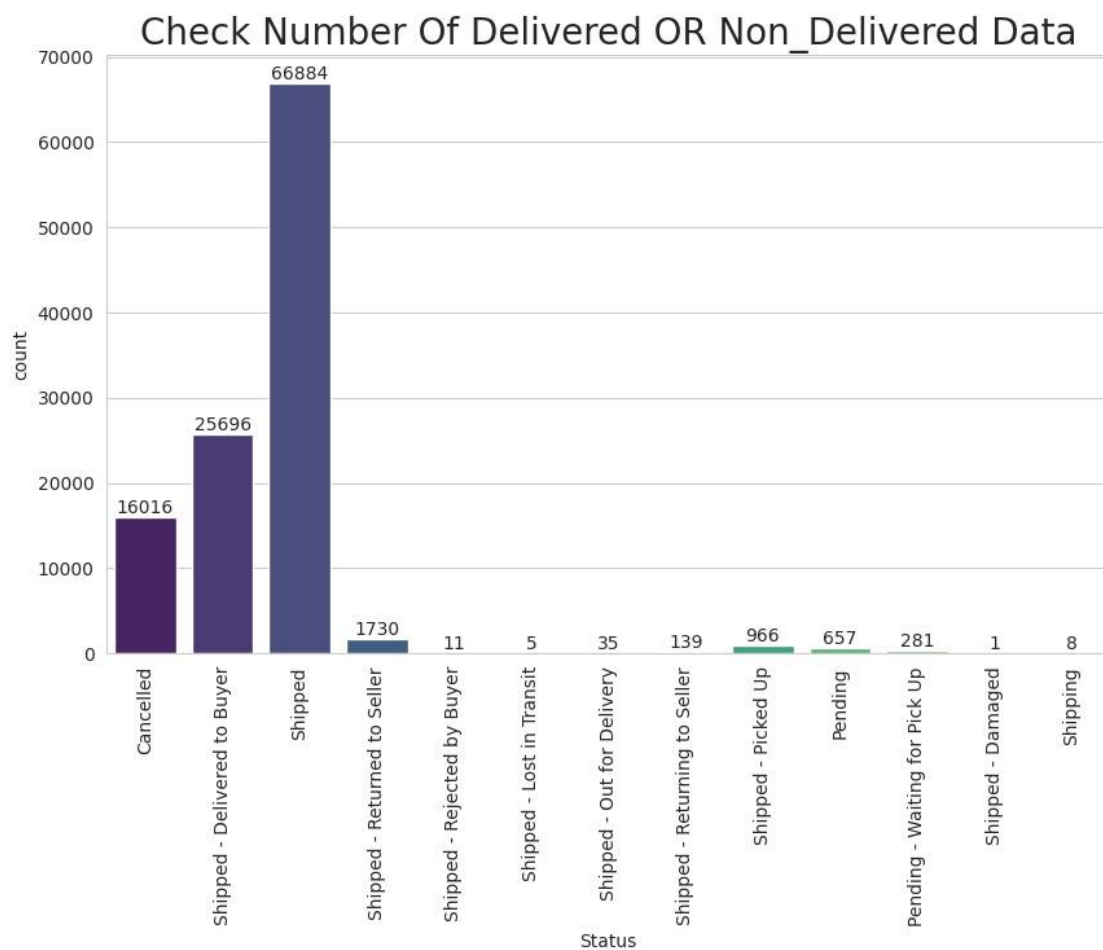
```
[65]: # create a plot
sns.set_style(style="whitegrid")
plt.figure(figsize=(10,6)) plt.title("Check Number Of
```

```
Delivered OR Non_Delivered Data",size=20)
plt.xticks(rotation=90)
ax=sns.countplot(data=df,x="Status",palette="v
iridis") for bars in ax.containers:
ax.bar_label(bars)
```

<ipython-input-65-8d0e3aeed314>:6: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
ax=sns.countplot(data=df,x="Status",palette="viridis")
```



2 check the Category of the product

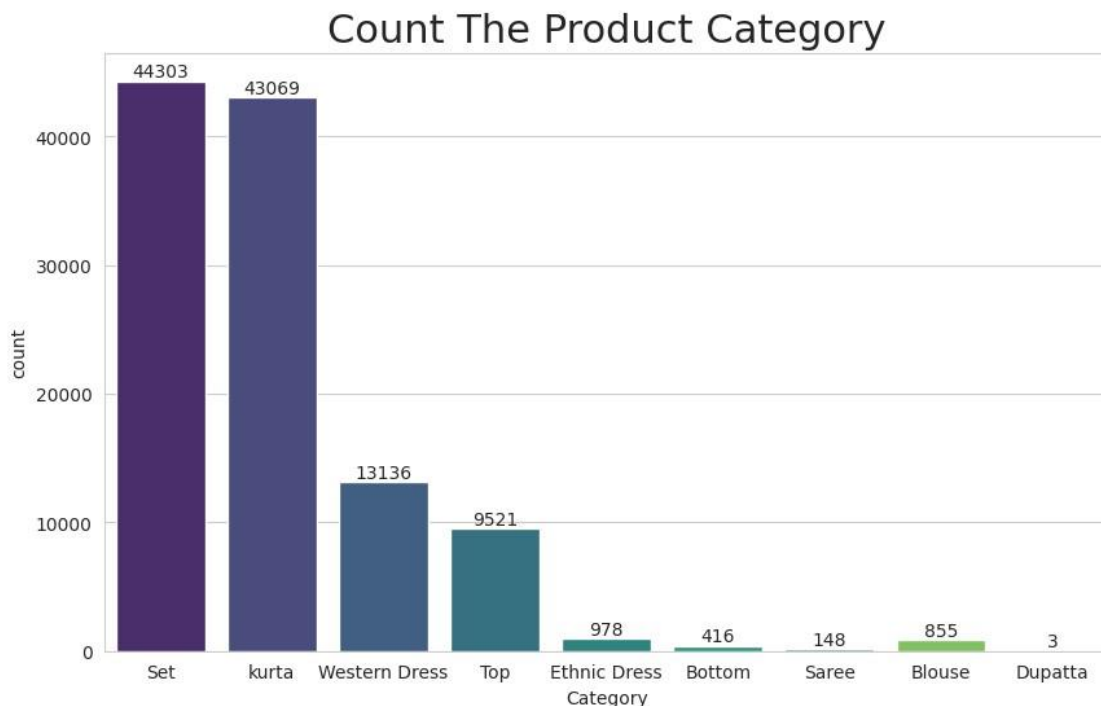
```
[66]: # check the unique value in column Category
df["Category"].unique()
```

```
[66]: array(['Set', 'kurta', 'Western Dress', 'Top', 'Ethnic Dress',  
          'Bottom', 'Saree', 'Blouse', 'Dupatta'], dtype=object)
```

```
[67]: # create a plot  
plt.figure(figsize=(10,6))  
plt.title("Count The Product Category",size=22)  
ax=sns.countplot(data=df,x="Category",palette="viridis")  
for bars in ax.containers:  
    ax.bar_label(bars)
```

<ipython-input-67-512a7a4030f2>:4: FutureWarning:
Passing `palette` without assigning `hue` is deprecated and will be
removed in v0.14.0. Assign the `x` variable to `hue` and set
`legend=False` for the same effect.

```
ax=sns.countplot(data=df,x="Category",palette="viridis")
```



In Category the most product are sale:- SET and The lest product are sale are :- DUPATTA

3 check the sales of states

```
[68]: # check the unique vqlue of column ship-state  
df["ship-state"].unique()
```

```
[68]: array(['MAHARASHTRA', 'KARNATAKA', 'PUDUCHERRY', 'TAMIL NADU',
```

```
'UTTAR PRADESH', 'CHANDIGARH', 'TELANGANA', 'ANDHRA PRADESH',
'RAJASTHAN', 'DELHI', 'HARYANA', 'ASSAM', 'JHARKHAND',
'CHHATTISGARH', 'ODISHA', 'KERALA', 'MADHYA PRADESH',
'WEST BENGAL', 'NAGALAND', 'Gujarat', 'UTTARAKHAND', 'BIHAR',
'JAMMU & KASHMIR', 'PUNJAB', 'HIMACHAL PRADESH',
'ARUNACHAL PRADESH', 'MANIPUR', 'Goa', 'MEGHALAYA', 'GOA',
'TRIPURA', 'LADAKH', 'DADRA AND NAGAR', 'SIKKIM', 'Delhi',
'ANDAMAN & NICOBAR', 'Punjab', 'Rajshthan', 'Manipur',
'rajasthan',
'Odisha', 'NL', 'Bihar', 'MIZORAM', 'punjab', 'New Delhi',
'Rajasthan', 'Punjab/Mohali/Zirakpur', 'Puducherry', 'delhi',
'RJ',
'Chandigarh', 'orissa', 'LAKSHADWEEP', 'goa', 'PB', 'APO',
'Arunachal Pradesh', 'AR', 'Pondicherry', 'Sikkim',
'Arunachal pradesh', 'Nagaland', 'bihar', 'Mizoram',
'rajsthan'], dtype=object)
```

```
[75]: # count the value
df["ship-state"].value_counts()
```

[75]: ship-state

MAHARASHTRA	19429
KARNATAKA	14930
TAMIL NADU	9863
TELANGANA	9768
UTTAR PRADESH	9304
DELHI	6165
KERALA	5780
WEST BENGAL	5344
ANDHRA PRADESH	4690
GUJARAT	4020
HARYANA	3896
RAJASTHAN	2379
MADHYA PRADESH	2194
BIHAR	1868
ODISHA	1843
PUNJAB	1702
ASSAM	1470
UTTARAKHAND	1386
JHARKHAND	1321
GOA	998
CHHATTISGARH	810
HIMACHAL PRADESH	686
JAMMU & KASHMIR	597
PUDUCHERRY	310
MANIPUR	291
CHANDIGARH	288

ANDAMAN & NICOBAR	223
MEGHALAYA	185
NAGALAND	171
SIKKIM	157
TRIPURA	132
ARUNACHAL PRADESH	129
MIZORAM	62
LADAKH	34
LAKSHADWEEP	3
APO	1

Name: count, dtype: int64

[76]: # replace all the same value

```
df["ship-state"].replace("Delhi", "DELHI", inplace=True) df["ship-
state"].replace("delhi", "DELHI", inplace=True) df["ship-
state"].replace("New Delhi", "DELHI", inplace=True) df["ship-
state"].replace("bihar", "BIHAR", inplace=True) df["ship-
state"].replace("Bihar", "BIHAR", inplace=True) df["ship-
state"].replace("Gujarat", "GUJARAT", inplace=True) df["ship-
state"].replace("Gujarat", "GUJARAT", inplace=True) df["ship-
state"].replace("Gujarat", "GUJARAT", inplace=True)

df["ship-state"].replace("Goa", "GOA", inplace=True) df["ship-
state"].replace("goa", "GOA", inplace=True) df["ship-
state"].replace("punjab", "PUNJAB", inplace=True) df["ship-
state"].replace("PB", "PUNJAB", inplace=True) df["ship-
state"].replace("Punjab", "PUNJAB", inplace=True)
df["ship-
state"].replace("Punjab/Mohali/Zirakpur", "PUNJAB", inplace=True)
df["ship-state"].replace("Rajsthan", "RAJASTHAN", inplace=True)
df["ship-state"].replace("rajsthan", "RAJASTHAN", inplace=True)
df["ship-state"].replace("Rajshthan", "RAJASTHAN", inplace=True)
df["ship-state"].replace("rajasthan", "RAJASTHAN", inplace=True)
df["ship-state"].replace("Rajasthan", "RAJASTHAN", inplace=True)
df["ship-state"].replace("RJ", "RAJASTHAN", inplace=True)

df["ship-state"].replace("Orissa", "ODISHA", inplace=True) df["ship-
state"].replace("orissa", "ODISHA", inplace=True) df["ship-
state"].replace("Odisha", "ODISHA", inplace=True) df["ship-
state"].replace("Mizoram", "MIZORAM", inplace=True) df["ship-
state"].replace("Sikkim", "SIKKIM", inplace=True) df["ship-
state"].replace("Manipur", "MANIPUR", inplace=True) df["ship-
state"].replace("Chandigarh", "CHANDIGARH", inplace=True) df["ship-
state"].replace("DADRA AND NAGAR", "Gujarat", inplace=True) df["ship-
state"].replace("Arunachal Pradesh", "ARUNACHAL PRADESH", inplace=True)
df["ship-state"].replace("Arunachal pradesh", "ARUNACHAL
```

```
    PRADESH", inplace=True) df["ship-state"].replace("APO", "ARUNACHAL  
    PRADESH", inplace=True)
```

```
df["ship-state"].replace("Nagaland", "NAGALAND", inplace=True) df["ship-  
state"].replace("NL", "NAGALAND", inplace=True) df["ship-  
state"].replace("Pondicherry", "PUDUCHERRY", inplace=True) df["ship-  
state"].replace("Puducherry", "PUDUCHERRY", inplace=True) df["ship-  
state"].replace("AR", "ARUNACHAL PRADESH", inplace=True) df["ship-  
state"].replace("Meghalaya", "MEGHALAYA", inplace=True)
```

<ipython-input-76-5f5f85c8a046>:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work

because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Delhi", "DELHI", inplace=True)
```

<ipython-input-76-5f5f85c8a046>:3: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("delhi", "DELHI", inplace=True)
```

<ipython-input-76-5f5f85c8a046>:4: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("New Delhi","DELHI",inplace=True)
<ipython-input-76-5f5f85c8a046>:5: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("bihar","BIHAR",inplace=True) <ipython-
input-76-5f5f85c8a046>:6: FutureWarning: A value is trying to be
set on a copy of a DataFrame or Series through chained assignment
using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Bihar","BIHAR",inplace=True)
<ipython-input-76-5f5f85c8a046>:7: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Gujarat","GUJARAT",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:11: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Goa","GOA",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:12: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("goa","GOA",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:13: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("punjab","PUNJAB",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:14: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("PB","PUNJAB",inplace=True)
<ipython-input-76-5f5f85c8a046>:15: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Punjab","PUNJAB",inplace=True)
<ipython-input-76-5f5f85c8a046>:16: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-
state"].replace("Punjab/Mohali/Zirakpur","PUNJAB",inplace=True)
<ipython-input-76-5f5f85c8a046>:17: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Rajsthan","RAJASTHAN",inplace=True)
<ipython-input-76-5f5f85c8a046>:18: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
```

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("rajsthan","RAJASTHAN",inplace=True)
<ipython-input-76-5f5f85c8a046>:19: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
```

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Rajshthan","RAJASTHAN",inplace=True)
<ipython-input-76-5f5f85c8a046>:20: FutureWarning: A value is trying
to be set
on a copy of a DataFrame or Series through chained assignment using
an inplace method.
```

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("rajasthan","RAJASTHAN",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:21: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Rajasthan","RAJASTHAN",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:22: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("RJ","RAJASTHAN",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:25: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Orissa","ODISHA",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:26: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("orissa","ODISHA",inplace=True)
<ipython-input-76-5f5f85c8a046>:27: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Odisha","ODISHA",inplace=True)
<ipython-input-76-5f5f85c8a046>:28: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Mizoram","MIZORAM",inplace=True)
<ipython-input-76-5f5f85c8a046>:29: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
For example, when doing 'df[col].method(value, inplace=True)', try
using 'df.method({col: value}, inplace=True)' or df[col] =
df[col].method(value) instead, to perform the operation inplace on
the original object.
```

```
df["ship-state"].replace("Sikkim","SIKKIM",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:30: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Manipur","MANIPUR",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:31: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Chandigarh","CHANDIGARH",inplace=True )
```

<ipython-input-76-5f5f85c8a046>:32: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("DADRA AND NAGAR","Gujarat",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:33: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Arunachal Pradesh","ARUNACHAL
PRADESH",inplace=True) <ipython-input-76-5f5f85c8a046>:34:
FutureWarning: A value is trying to be set on a copy of a DataFrame
or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Arunachal pradesh","ARUNACHAL
PRADESH",inplace=True) <ipython-input-76-5f5f85c8a046>:35:
FutureWarning: A value is trying to be set on a copy of a DataFrame
or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("APO","ARUNACHAL PRADESH",inplace=True)
<ipython-input-76-5f5f85c8a046>:37: FutureWarning: A value is trying
to be set on a copy of a DataFrame or Series through chained
assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will
never work because the intermediate object on which we are setting
values always behaves as a copy.
```

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object. `df["ship-state"].replace("Nagaland","NAGALAND",inplace=True)`
<ipython-input-76-5f5f85c8a046>:38: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("NL","NAGALAND",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:39: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Pondicherry","PUDUCHERRY",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:40: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing `'df[col].method(value, inplace=True)'`, try using `'df.method({col: value}, inplace=True)'` or `df[col] = df[col].method(value)` instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Puducherry","PUDUCHERRY",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:41: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("AR","ARUNACHAL PRADESH",inplace=True)
```

<ipython-input-76-5f5f85c8a046>:42: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object.

```
df["ship-state"].replace("Meghalaya","MEGHALAYA",inplace=True)
```

```
[77]: # create a plot
plt.figure(figsize=(20,6))
plt.title("check the sales of states ",size=50)
plt.xticks(rotation=90)
ax=sns.countplot(data=df,x="ship-state",palette="viridis")

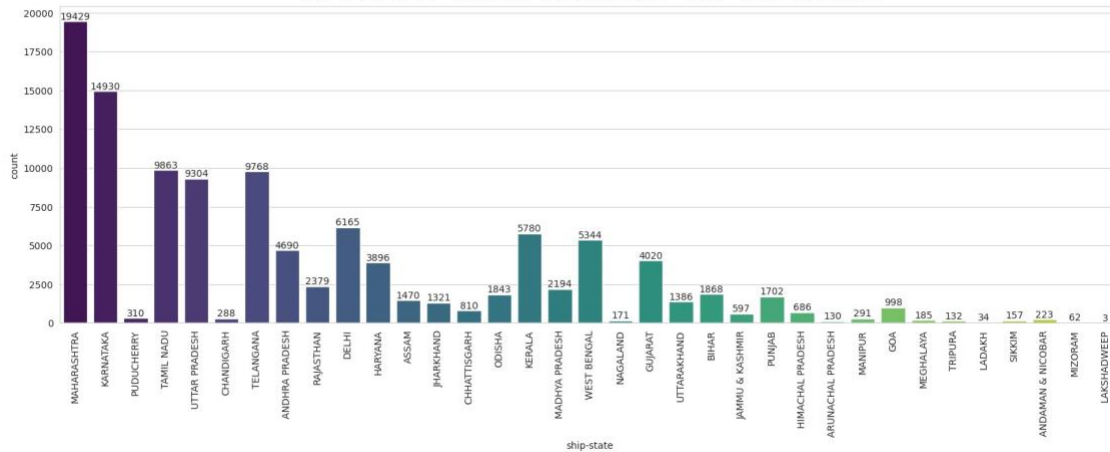
for bars in ax.containers:
    ax.bar_label(bars)
```

<ipython-input-77-2200c613a338>:5: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
ax=sns.countplot(data=df,x="ship-state",palette="viridis")
```


check the sales of states



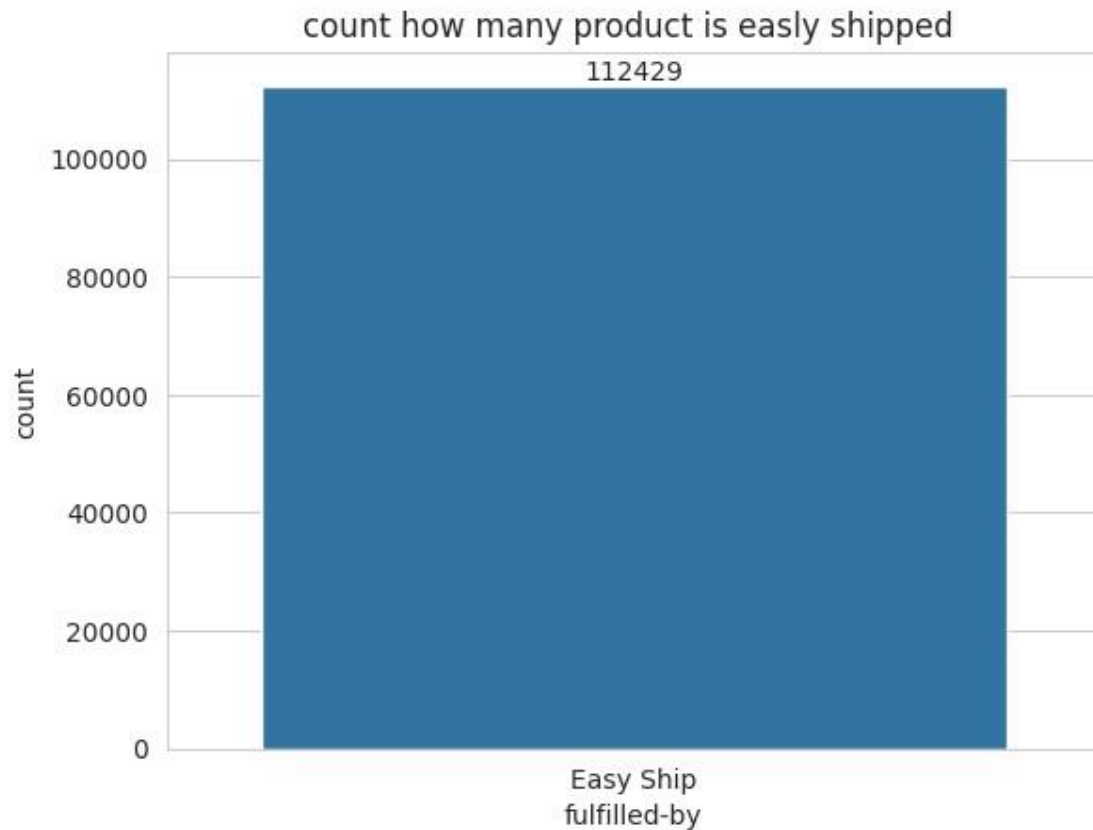
The most saleable product in MAHARASHTRA and The lest product are sale in LAKSHADWEEP

4 count how many product is easily shipped

```
[78]: # check the unique value of column fulfilled-by
df["fulfilled-by"].unique()
```

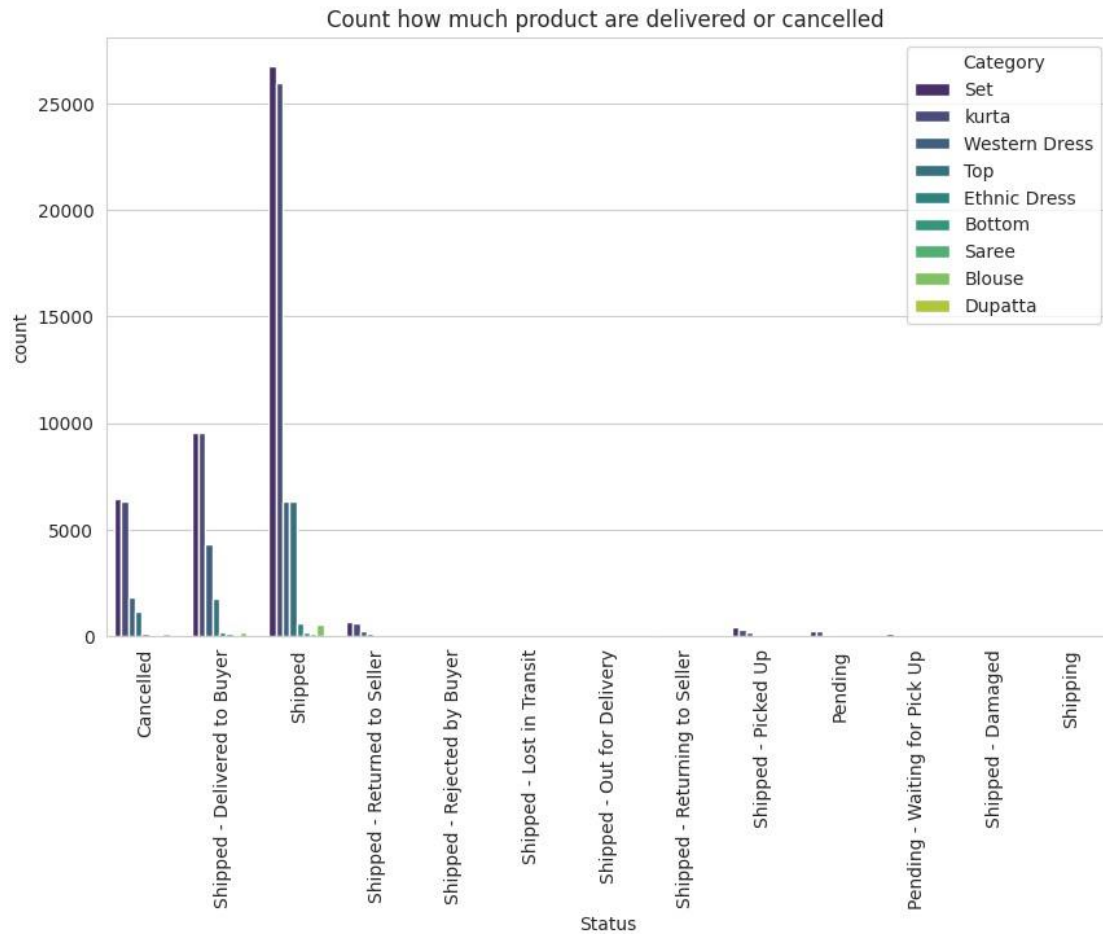
```
[78]: array(['Easy Ship'], dtype=object)
```

```
[79]: # create a plot
plt.title("count how many product is easily shipped ")
ax=sns.countplot(data=df,x="fulfilled-by")
for bars in ax.containers:
    ax.bar_label(bars)
plt.show()
```



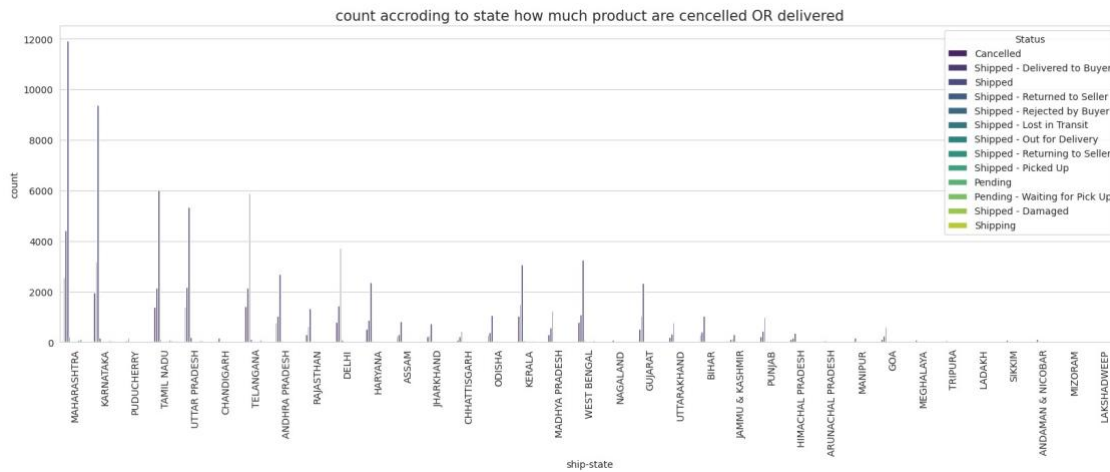
5 check the Category according to Status

```
[80]: # craete a plot
plt.figure(figsize=(10,6))
plt.xticks(rotation=90)
plt.title("Count how much product are delivered or cancelled ")
sns.countplot(data=df,x="Status",hue="Category",palette="viridis"
) plt.show()
```



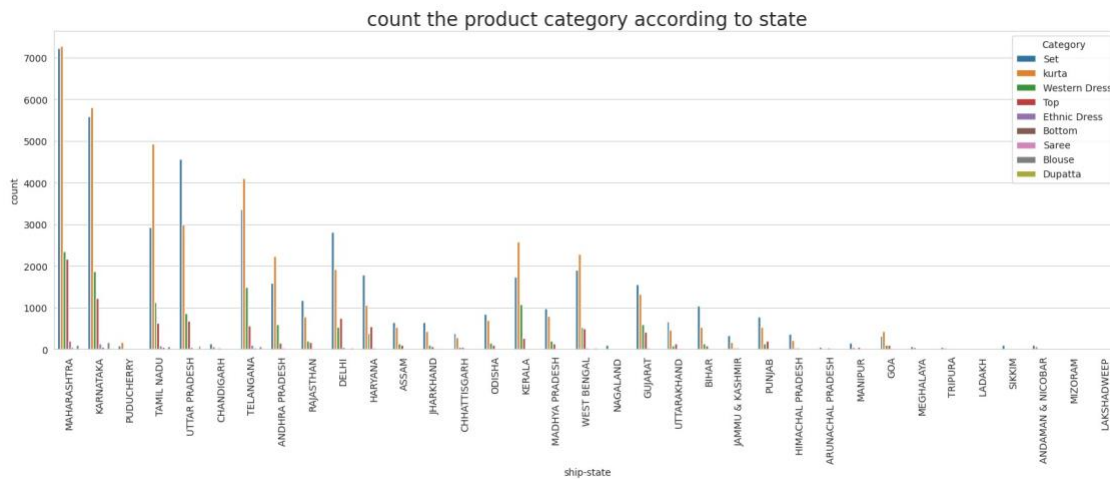
6 count the sales of product according to state

```
[81]: # create a plot
plt.figure(figsize=(20,6)) plt.xticks(rotation=90)
plt.title("count accroding to state how much product are
cancelled OR_
delivered",size=15) ax=sns.countplot(data=df,x="ship-
state",hue="Status",palette="viridis") plt.show()
```



7 count the sale of product according to state

```
[82]: # create a plot
plt.figure(figsize=(20,6))
plt.xticks(rotation=90)
plt.title("count the product category according to state ",size=20)
sns.countplot(data=df,x="ship-state",hue="Category")
plt.savefig("count.jpg")
plt.show()
```



8 check the sales according to year and month

```
[83]: df["Date"].dtype
```

```
[83]: dtype('<M8[ns]')
```

```
[84]: # convert the object data type into datetime datatype
df['Date'] = pd.to_datetime(df['Date'])

print(df.dtypes)
```

```
index          int64
Order ID       object
Date           datetime64[ns]
Status         object
Fulfilment object Sales Channel
              object ship-service-level
              object
Style          object
SKU            object
Category       object
Size           object
ASIN           object
Courier Status object
Qty  float64 currency object Amount
      float64 ship-city      object
ship-state object ship-postal-code
      float64 ship-country  object
promotion-ids  object
B2B  object fulfilled-by  object
month int32
dtype: object
```

```
[85]: # create a new column for month
df["month"] = df["Date"].dt.month
```

```
[86]: # count the month value
df["month"].value_counts()
```

```
[86]: month
4    49054
5    41936
6    21268
3     171
Name: count, dtype: int64
```

```
[87]: # replace the month number by month name
df["month"].replace(3, "March", inplace=True)
df["month"].replace(4, "April", inplace=True)
df["month"].replace(5, "May", inplace=True)
df["month"].replace(6, "June", inplace=True)
```

<ipython-input-87-5afabe22b384>:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method.
The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

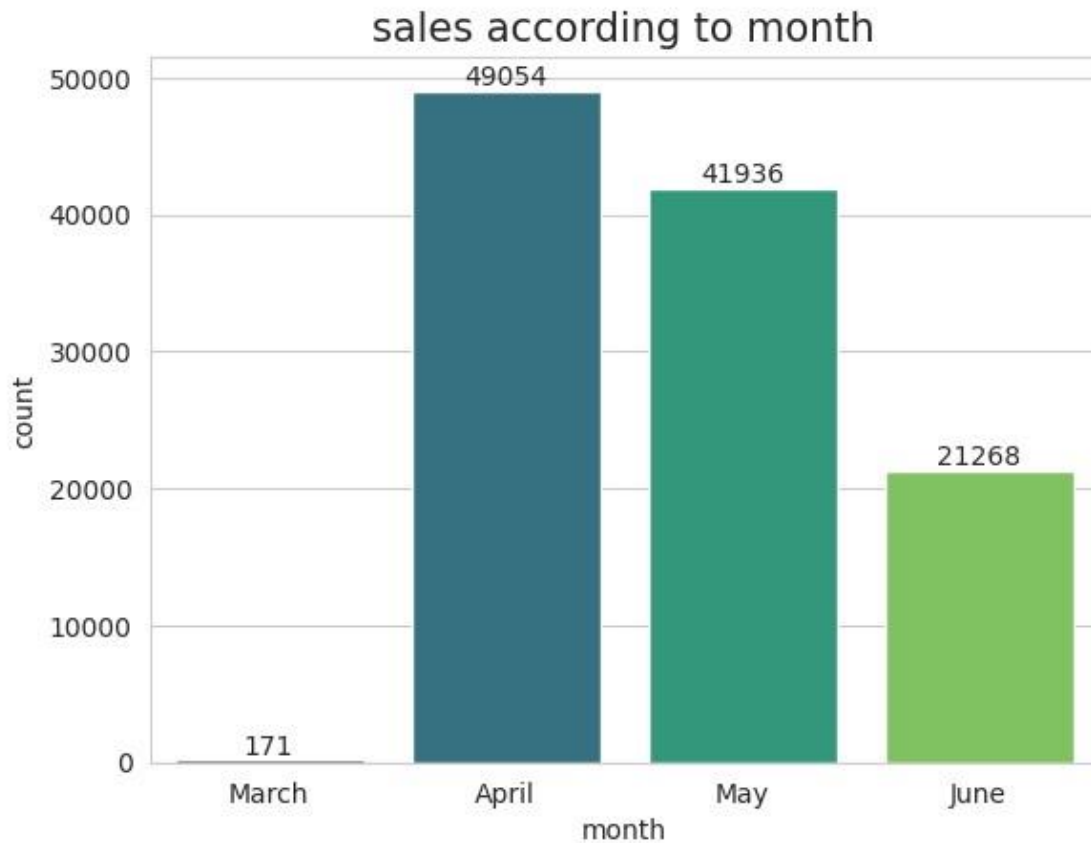
For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform the operation inplace on the original object. df["month"].replace(3,"March",inplace=True)

```
[89]: # create a plot
plt.title("sales according to month",size=15)
ax=sns.
    ↪countplot(data=df,x="month",palette="viridis",order=["March","April","May","June"])
for bars in ax.containers:
    ax.bar_label(bars)
```

<ipython-input-89-f072b1b62b1f>:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
ax=sns.countplot(data=df,x="month",palette="viridis",order=["March",
,"April","M ay","June"])
```



8.1 sale According to amount

```
[90]: df["Amount"] = df["Amount"].astype(int)
```

```
[91]: grouped = df.groupby("Category")["Amount"].sum()
group = pd.DataFrame(grouped)
group
```

```
[91]:
```

Category	Amount
Blouse	414721
Bottom	142416
Dupatta	915
Ethnic	672537
Dress	
Saree	109005
Set	34564843
Top	4679816

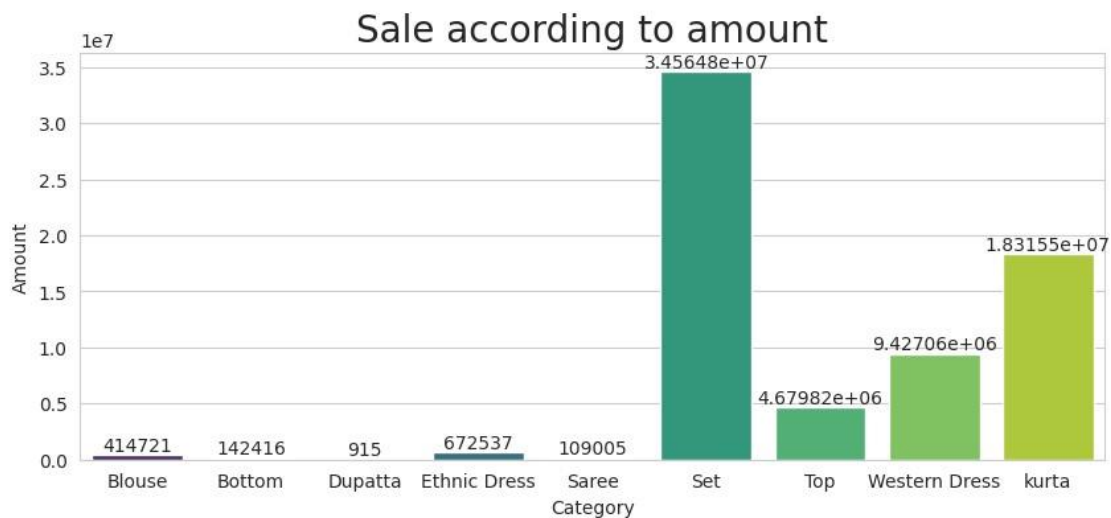
```
Western      9427060
Dress
kurta        18315545
```

```
[92]: plt.figure(figsize=(10,4)) plt.title("Sale according to
amount",size=20)
ax=sns.barplot(data=group,x="Category",y="Amount",palette=
"viridis") for bars in ax.containers: ax.bar_label(bars)
```

<ipython-input-92-8bc1bf5c23b0>:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
ax=sns.barplot(data=group,x="Category",y="Amount",palette="viridis"
)
```



8.2 state sale accoring to Amount with State

```
[93]: group1=df.groupby("ship-state") ["Amount"].sum()
g1=pd.DataFrame(group1)
g1
```

```
[93]:
```

ship-state	Amount
ANDAMAN & NICOBAR	137243
ANDHRA PRADESH	2773829
ARUNACHAL PRADESH	85469

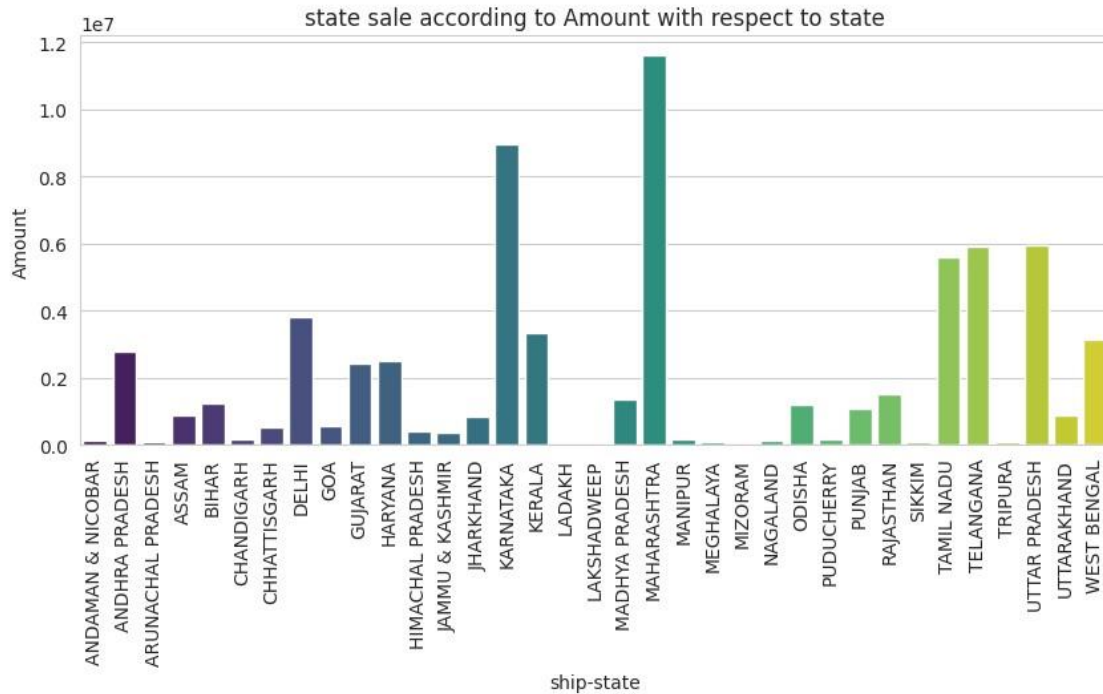
ASSAM	896092
BIHAR	1251396
CHANDIGARH	185958
CHHATTISGARH	513903
DELHI	3824845
GOA	559415
GUJARAT	2448159
HARYANA	2512623
HIMACHAL PRADESH	433707
JAMMU & KASHMIR	383947
JHARKHAND	835102
KARNATAKA	8986754
KERALA	3361476
LADAKH	30467
LAKSHADWEEP	2330
MADHYA PRADESH	1378957
MAHARASHTRA	11615692
MANIPUR	194702
MEGHALAYA	107153
MIZORAM	33264
NAGALAND	133225
ODISHA	1190823
PUDUCHERRY	166542
PUNJAB	1074443
RAJASTHAN	1534563
SIKKIM	109424
TAMIL NADU	5590573
TELANGANA	5929461
TRIPURA	78406
UTTAR PRADESH	5959482
UTTARAKHAND	871876
WEST BENGAL	3135557

```
[95]: plt.figure(figsize=(10,4))    plt.title("state sale
according to Amount with respect to state")
plt.xticks(rotation=90)
sns.barplot(data=g1,x="ship-state",y="Amount",palette="viridis")
plt.show()
```

<ipython-input-95-4ce9055fb584>:4: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
sns.barplot(data=g1,x="ship-state",y="Amount",palette="viridis")
```



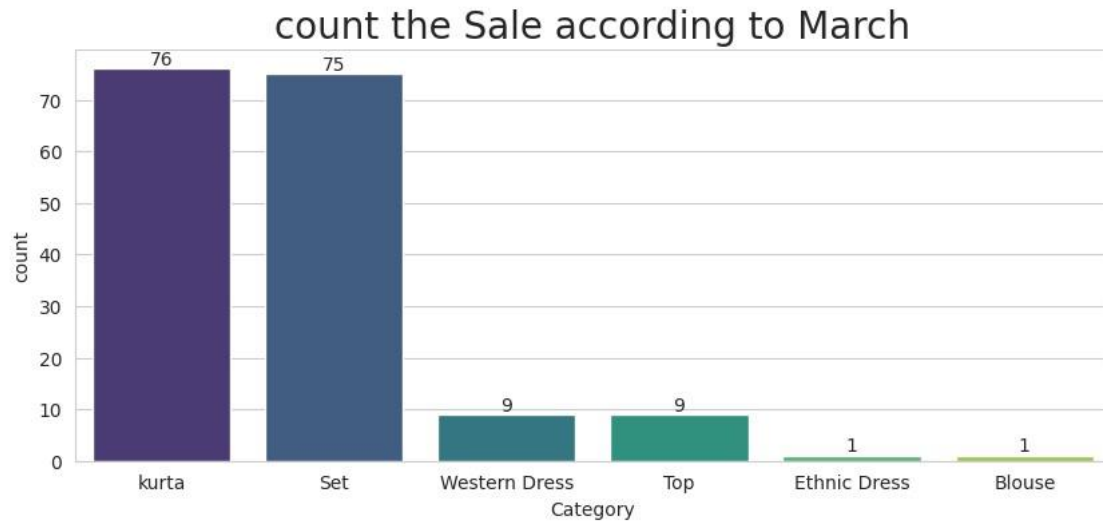
9 *Sale according to month **

```
[106]: plt.figure(figsize=(10,4)) plt.title("count the Sale according to
March",size=20)
ax=sns.countplot(x="Category",data=df[df["month"]=="March"],palette
="viridis") for bars in ax.containers: ax.bar_label(bars)
```

<ipython-input-106-197bf28aff18>:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
ax=sns.countplot(x="Category",data=df[df["month"]=="March"],palette="viridis")
```

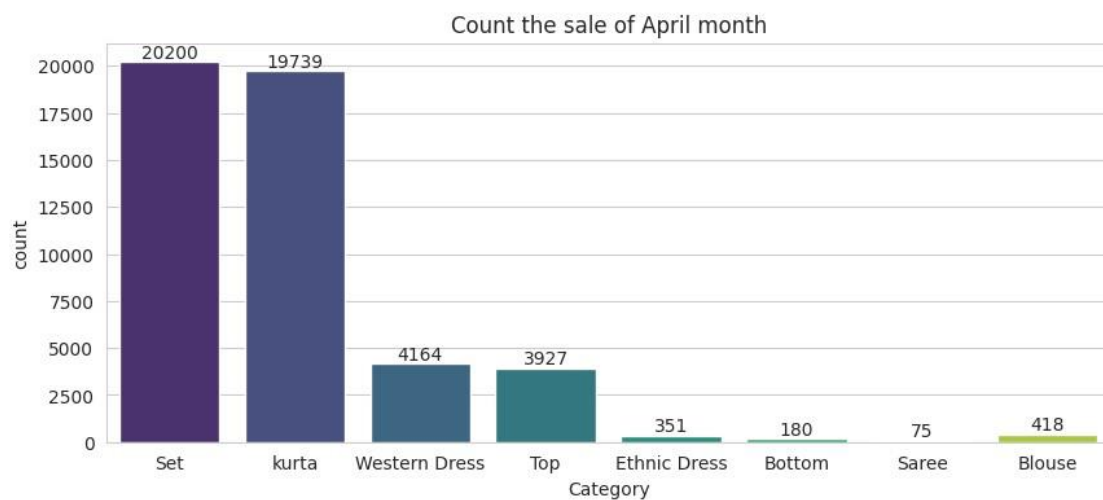


```
[117]: plt.figure(figsize=(10,4)) plt.title("Count the sale of April
month")
ax=sns.countplot(x="Category",data=df[df["month"]=="April"],palette
="viridis") for bars in ax.containers:
    ax.bar_label(bars,size=10)
```

<ipython-input-117-1e5b8782c3f8>:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
ax=sns.countplot(x="Category",data=df[df["month"]=="April"],palette="viridis")
```

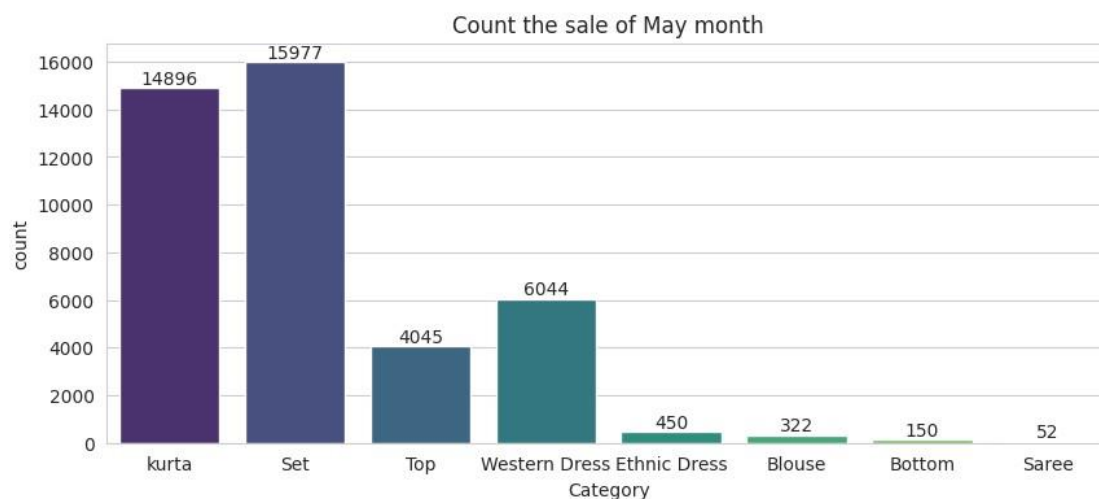


```
[125]: plt.figure(figsize=(10,4)) plt.title("Count the sale of May month")
ax=sns.countplot(x="Category",data=df[df["month"]=="May"],palette
="viridis") for bars in ax.containers: ax.bar_label(bars)
```

<ipython-input-125-aalf5986de5c>:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
ax=sns.countplot(x="Category",data=df[df["month"]=="May"],palette="viridis")
```



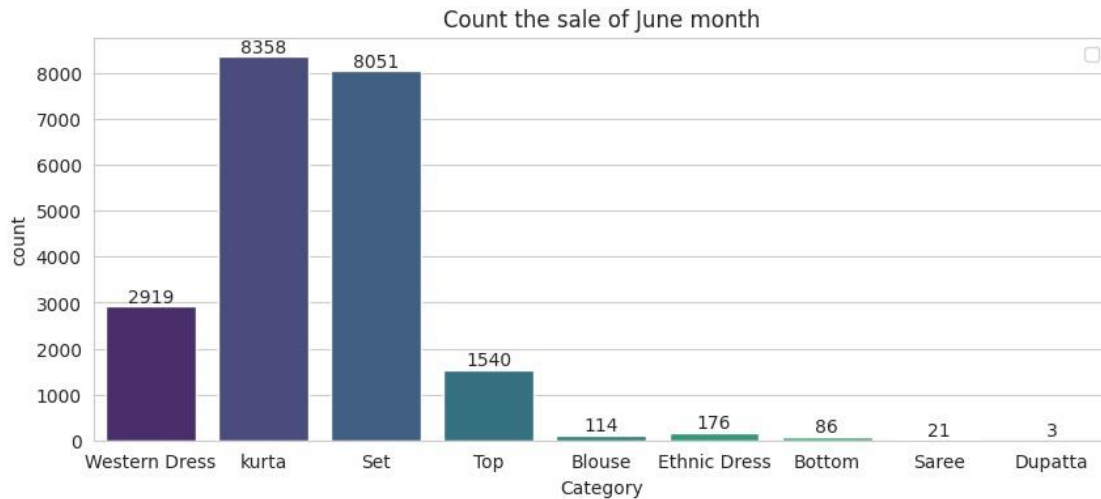
```
[126]: plt.figure(figsize=(10,4)) plt.title("Count the sale of June
month")
ax=sns.countplot(x="Category",data=df[df["month"]=="June"],palette
="viridis") for bars in ax.containers: ax.bar_label(bars)
```

<ipython-input-126-6891e92f0d2e>:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
ax=sns.countplot(x="Category",data=df[df["month"]=="June"],palette=
"viridis") <ipython-input-126-6891e92f0d2e>:6: UserWarning: No
artists with labels found to put in legend. Note that artists whose
label start with an underscore are ignored when legend() is called
with no argument. plt.legend()
```

```
[126]: <matplotlib.legend.Legend at 0x7f1c60b45510>
```



```
[129]: df.head()
```

```
[129]:  index      Order ID      Date      Status \
0      0  405-8078784-5731545  2022-04-30Cancelled
1      1  171-9198151-1101146  2022-04-30 Shipped - Delivered to Buyer
2      2  404-0687676-7273146  2022-04-30Shipped 3  3 403-9615377-
      8133951  2022-04-30  Cancelled
4      4  407-1069790-7240320  2022-04-30      Shipped
```

```
Fulfilment Sales Channel ship-service-levelStyle      SKU \
0  Merchant Amazon.in Standard SET389 SET389-KR-NP-S
1  Merchant Amazon.in Standard JNE3781 JNE3781-KR-XXXL 2 Amazon
Amazon.in Expedited JNE3371 JNE3371-KR-XL 3 Merchant Amazon.in
Standard J0341 J0341-DR-L
4  Amazon Amazon.in Expedited JNE3671 JNE3671-TU-XXXL
```

```
Category ... currency Amount ship-city ship-state \
0  Set ... INR 647 MUMBAI MAHARASHTRA 1 kurta ...
INR 406 BENGALURU KARNATAKA 2 kurta ...
INR 329 NAVI MUMBAI MAHARASHTRA
3  Western Dress ... INR 753 PUDUCHERRY PUDUCHERRY
4  Top ... INR 574 CHENNAI TAMIL NADU
```

```
ship-postal-code ship-country \
0 400081.0 IN
1 560085.0 IN
2 410210.0 IN
3 605008.0 IN
```

4 600073.0 IN

```

                                promotion-ids  B2B fulfilled-by \
0                                Not_prometed False  Easy Ship
1                                Amazon PLCC Free-Financing
                                Universal Merchant ... False      Easy
                                Ship
2                                IN Core Free Shipping 2015/04/08
                                23-48-5-108   True  Easy Ship
3                                Not_prometed False  Easy Ship
4                                Not_prometed False  Easy Ship
```

```

    month
0 April
1 April
2 April
3 April
4 April
```

[5 rows x 24 columns]

[]:

