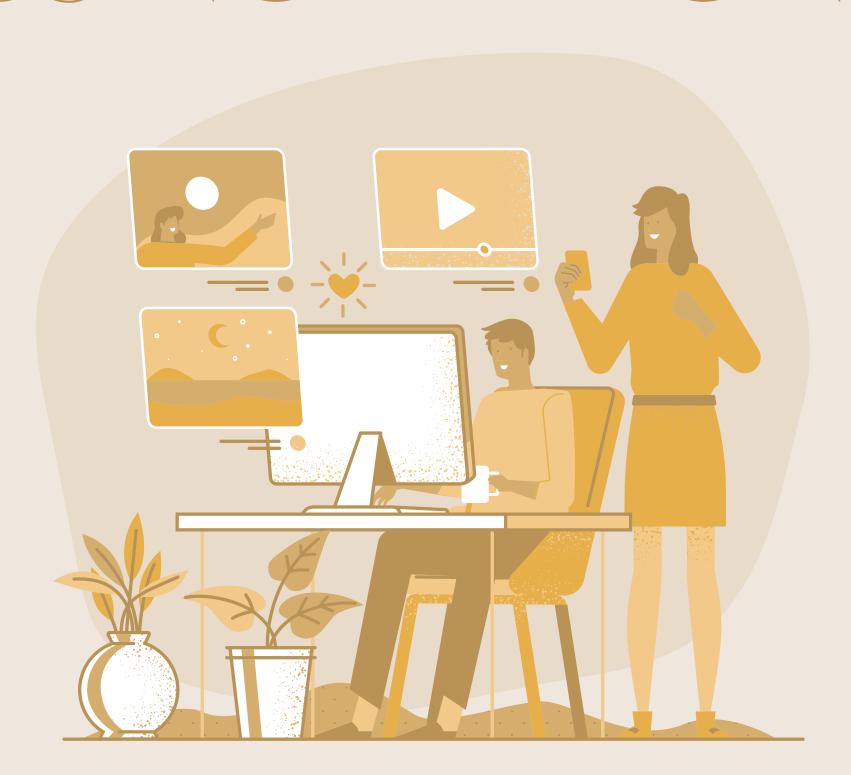
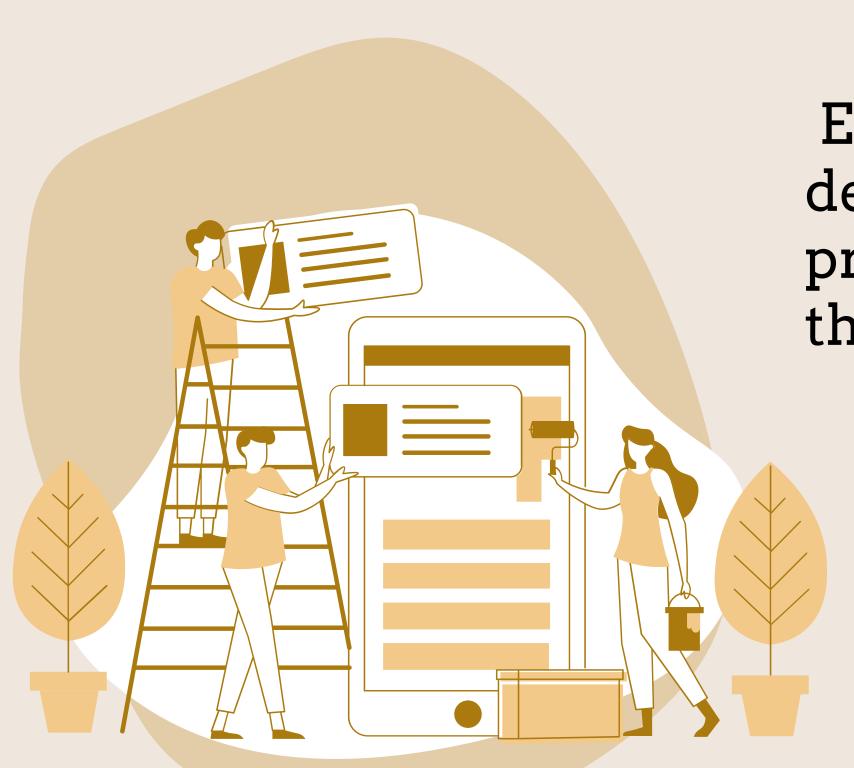
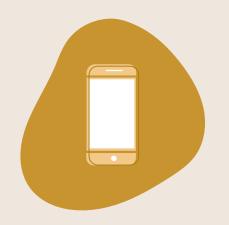
## AMAZON SALES ANALYSIS USING PYTHON



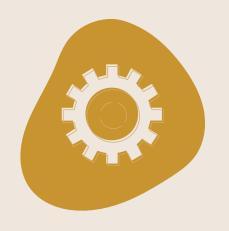
### OBJECTIVE



Examine the Amazon sales figures to determine the most popular products among consumers during the sales period.



# PLATFORM AND LIBRARIES USED IN THIS PROJECT

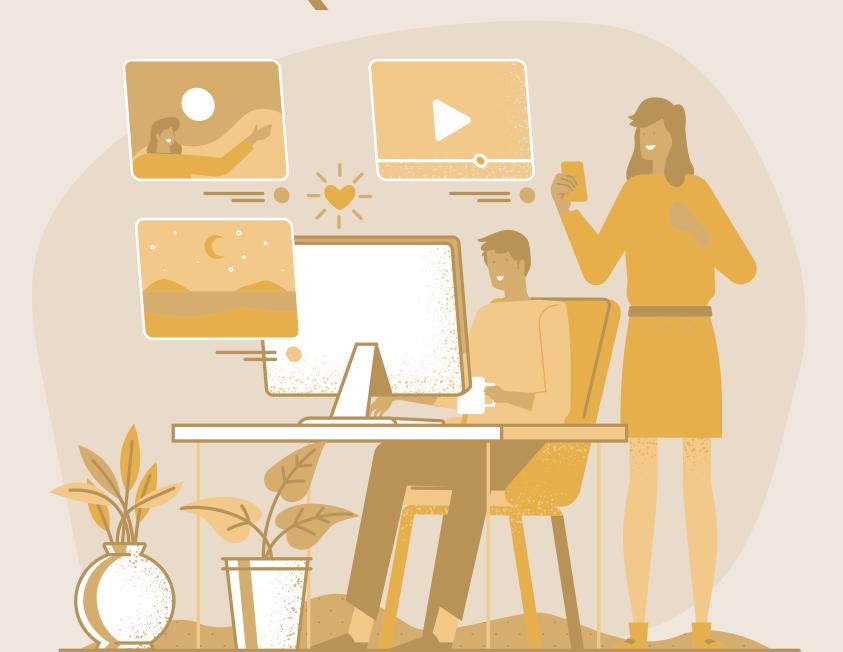


- Jupyter Notebook serves as a coding platform where various libraries are utilized.
- For instance, NumPy is employed for array operations.



- Pandas is used for data manipulation and cleaning.
- while Seaborn and Matplotlib are applied for visualizing data.

# EXPLORATORY DATA ANALYSIS SET-QUESTIONS

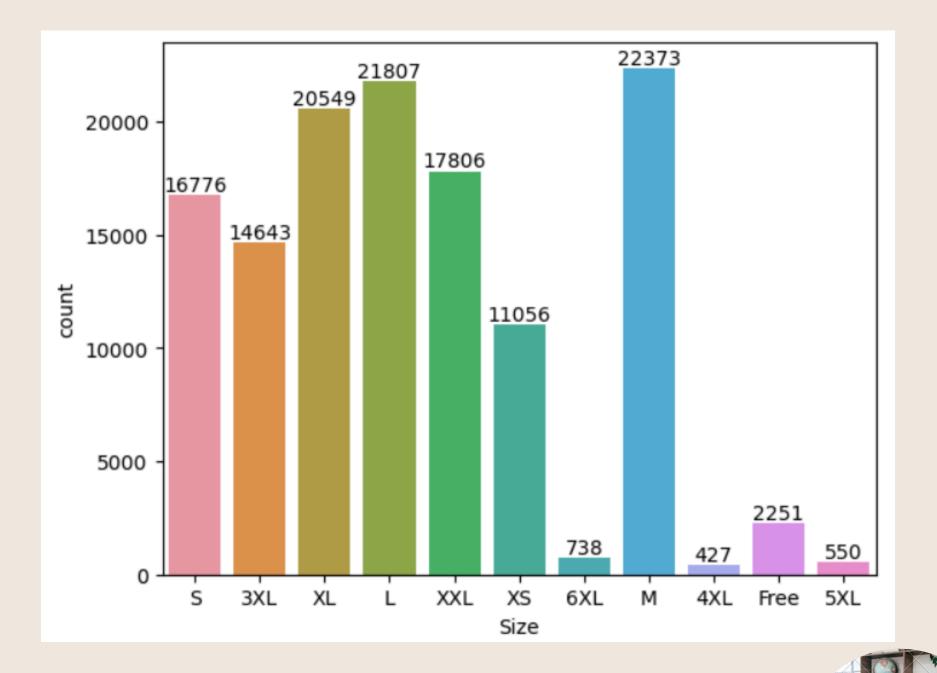




#### The below graph shows you that most people buy M-size.

```
ax=sns.countplot(x='Size', data=df)

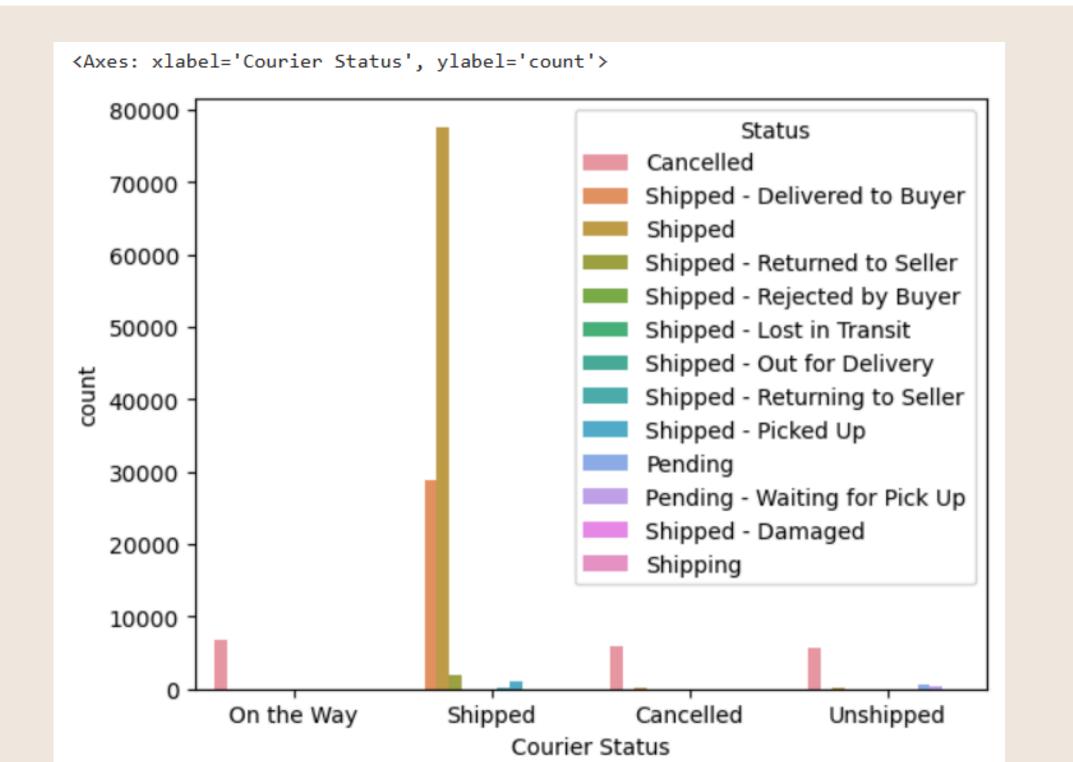
for bars in ax.containers:
    ax.bar_label(bars)
```





The below graph shows that most of the orders have been shipped through the Courier.

```
sns.countplot(data=df, x='Courier Status', hue = 'Status')
```



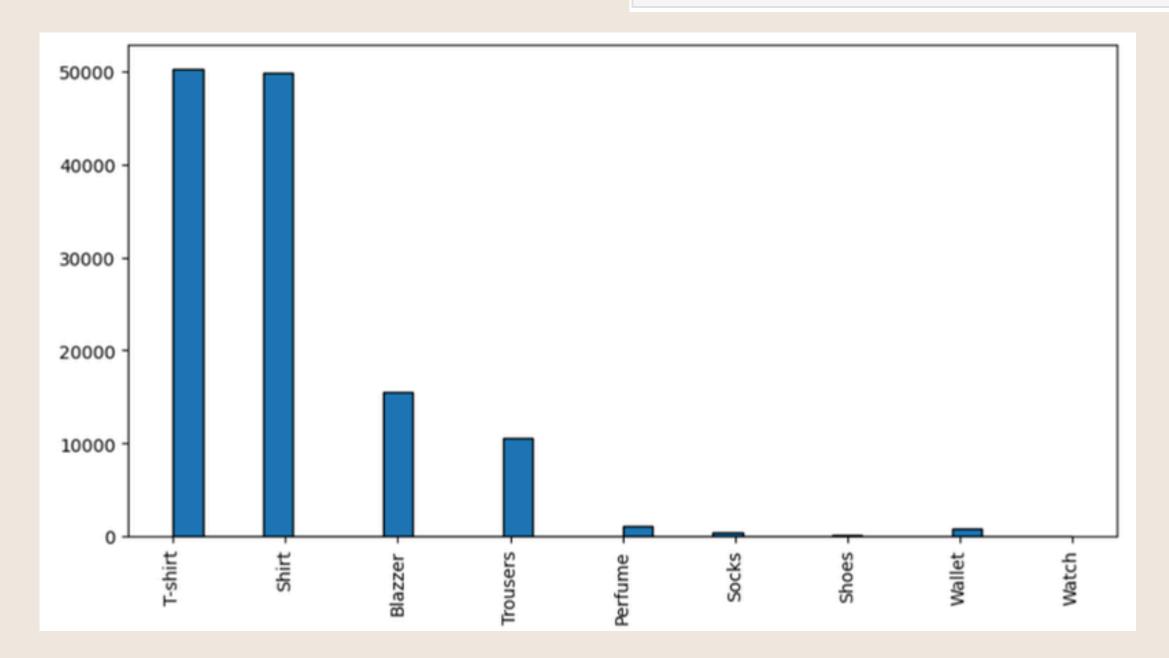




The below Graph shows that most of the buyers are T-

shirt

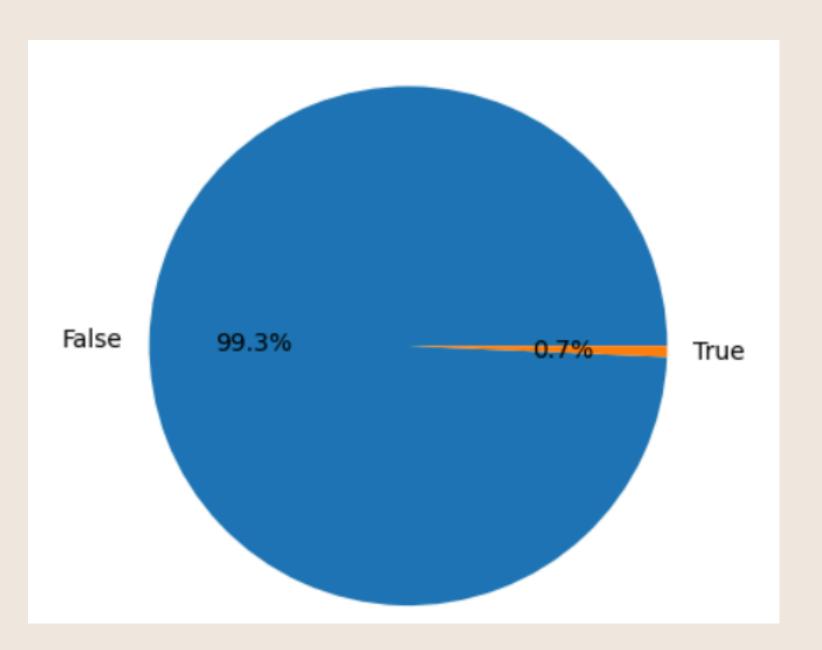
```
df['Category'] = df['Category'].astype(str)
column_data = df['Category']
plt.figure(figsize=(10, 5))
plt.hist(column_data, bins=30, edgecolor='Black')
plt.sticks (rotation=90) #--> show the x-axis values in 90 degrees.
plt.show()
```







## From the below chart we can see that the maximum i.e. 99.3% of buyers are retailers and 0.8% are B2B buyers



```
# Checking B2B Data by using a pie chart
B2B_Check = df['B2B'].value_counts()

# Plot the pie chart
plt.pie(B2B_Check, labels=B2B_Check.index, autopct='%1.1f%%')
#plt.axis('equal')
plt.show()
```





#### The below chart shows that most of the Fulfilment is amazon.

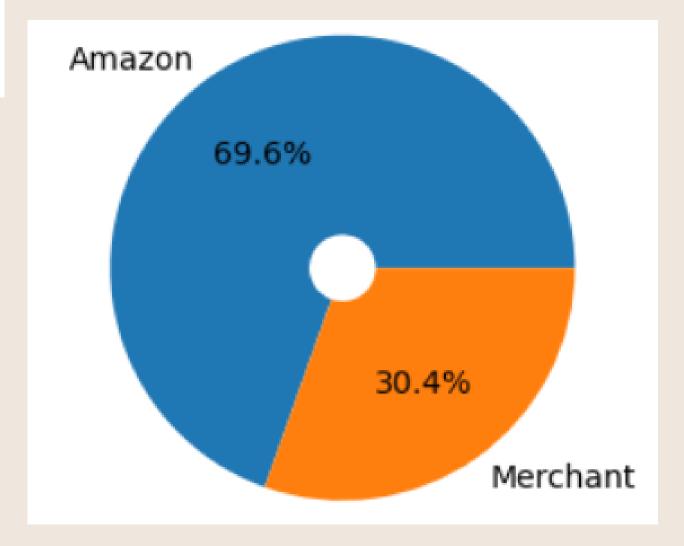
```
# Prepare data for a pie chart
a1 = df['Fulfilment'].value_counts()

# Step 4: Plot the pie chart
fig, ax = plt.subplots()

ax.pie(a1, labels=a1.index, autopct='%1.1f%%', radius=0.7, wedgeprops=dict(width=0.6))
ax.set(aspect="equal")

plt.show()
```



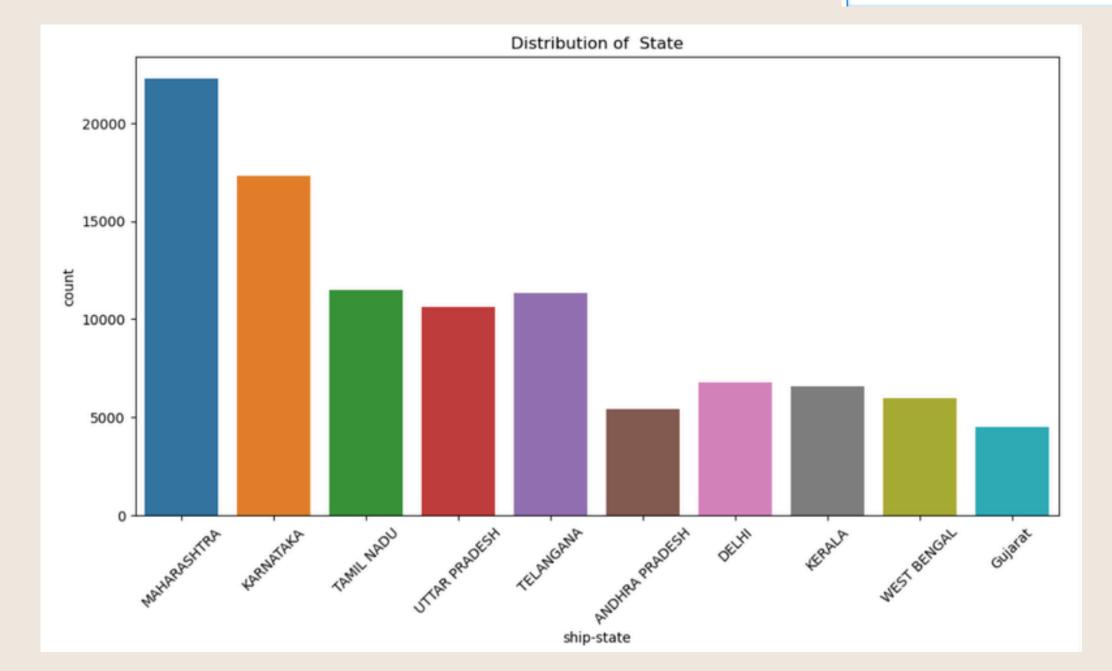




#### The below Graph shows that most of the buyers are from

Maharashtra state.

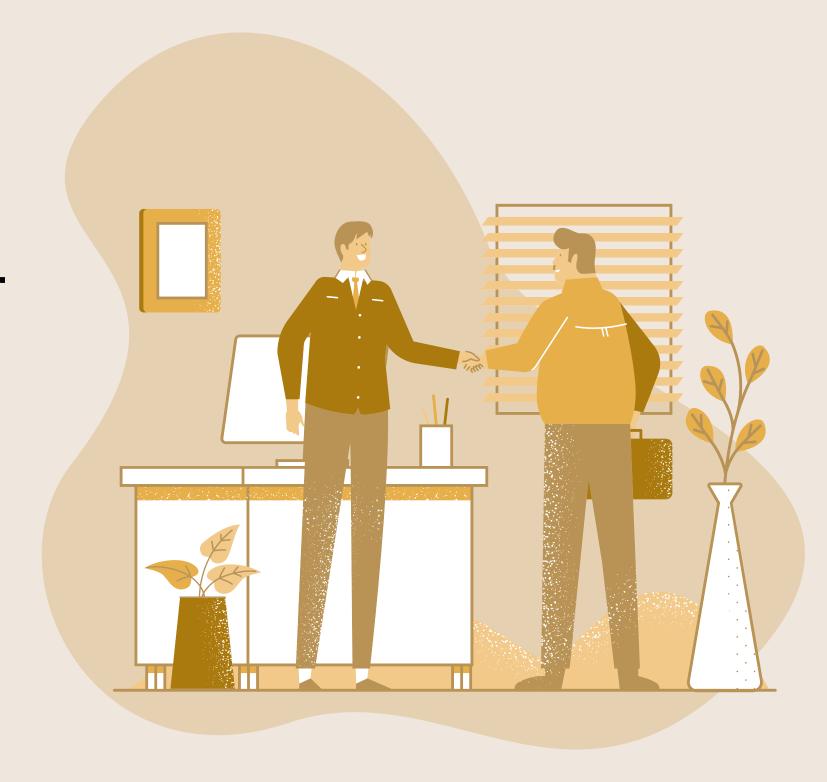
```
# top_10_States
top_10_state = df['ship-state'].value_counts().head(10)
# Plot count of cities by state
plt.figure(figsize=(12, 6))
sns.countplot(data=df[df['ship-state'].isin(top_10_state.index)], x='ship-state')
plt.xlabel('ship-state')
plt.ylabel('count')
plt.title('Distribution of State')
plt.xticks(rotation=45)
plt.show()
```





#### CONCLUSION

- The analytical insights indicate a robust clientele in Maharashtra for the business, which primarily caters to retail outlets.
- The company executes order fulfillment via Amazon, with Tshirts being highly sought after, and medium size emerging as the top preference among consumers.





#### THANK YOU

The datasets and profile files can be found on my GitHub page, for which I have provided the link. Kindly review them at your convenience

https://github.com/PallaviJaiswal40/Python\_Amazon\_Sales\_Analysis