Mini Project Data Science

Data Visualization

with

Python & Looker Studio



What Dataset?

In this mini project, we use an e-commerce dataset that contains transaction data from an e-commerce platform.

Purpose

The purpose of data visualization for this dataset is to identify patterns, transaction trends, and facilitate data analysis to generate insights for business decisionmaking in the e-commerce sector.

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Dataset POV

To get a quick overview of the information from the dataset that will be used as the source for data visualization.



Dataset Info

To view the information contained in the e-commerce dataset.

Product Category	Product	Sales	Quantity	Discount	 Shipping Cost	Order Priority	Customer ID	Customer Name	Segment	City	State	Country	Region	Months
Auto & Accessories	Car Media Players	\$140.00	2	0.05	\$4.60	Medium	LS-001	Lane Daniels	Consumer	Brisbane	Queensland	Australia	Oceania	Nov
Auto & Accessories	Car Speakers	\$211.00	3	0.03	\$11.20	Medium	IZ-002	Alvarado Kriz	Home Office	Berlin	Berlin	Germany	Central	Jun
Auto & Accessories	Car Body Covers	\$117.00	5	0.01	\$3.10	Critical	EN-003	Moon Weien	Consumer	Porirua	Wellington	New Zealand	Oceania	Dec
Auto & Accessories	Car & Bike Care	\$118.00	2	0.05	\$2.60	High	AN-004	Sanchez Bergman	Corporate	Kabul	Kabul	Afghanistan	Central Asia	Мау
Auto & Accessories	Туге	\$250.00	1	0.04	\$16.00	Critical	ON-005	Rowe Jackson	Corporate	Townsville	Queensland	Australia	Oceania	Jul



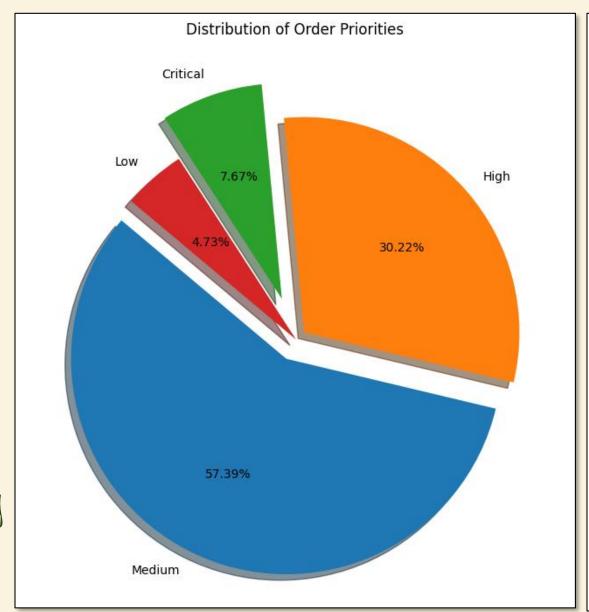
Pie Chart

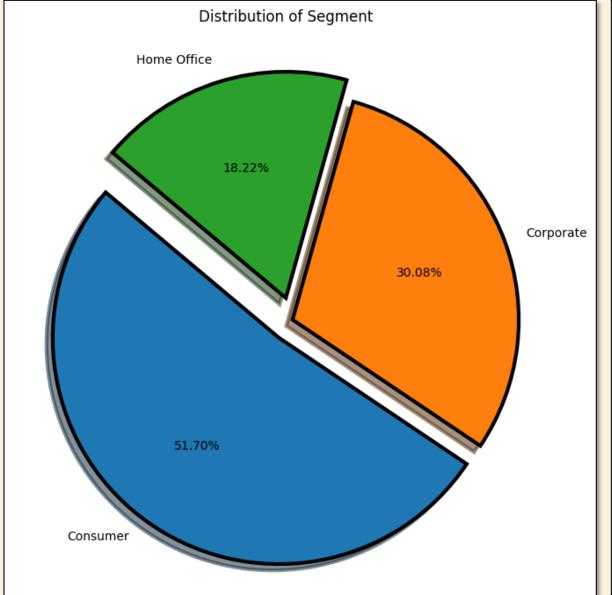
To view the data distribution in each column

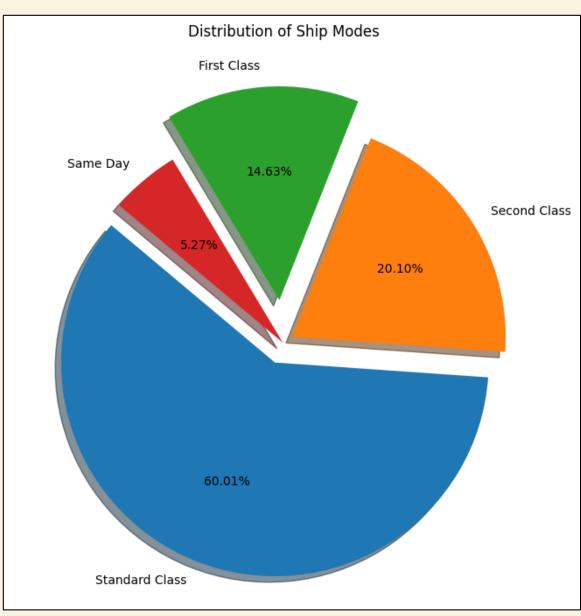


Data Distribution by Priority Column Using Pie Charts

The percentage of data distribution in the columns to gain insights from the dataset information.

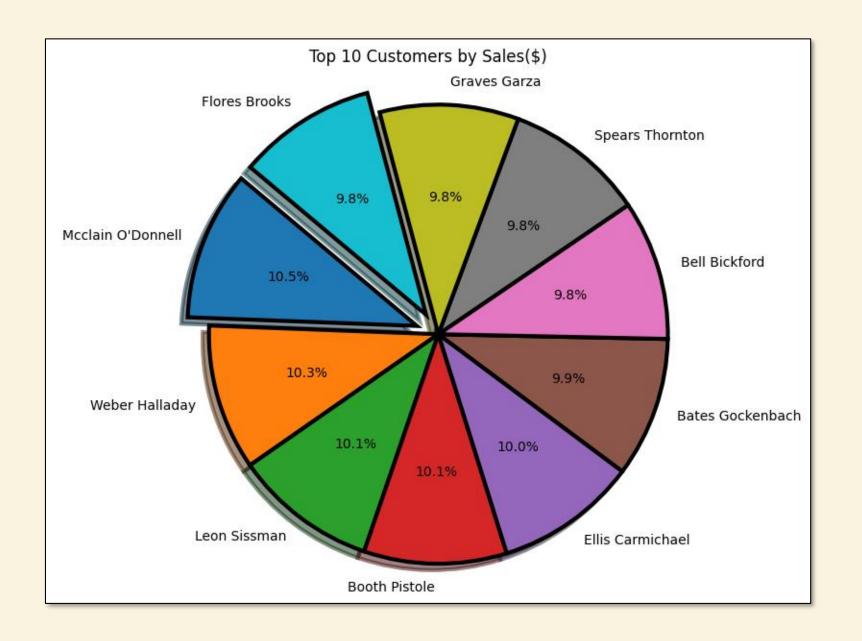






Data Distribution by Priority Column Using a Pie Chart

Reviewing the top 10 customers with the highest sales values.



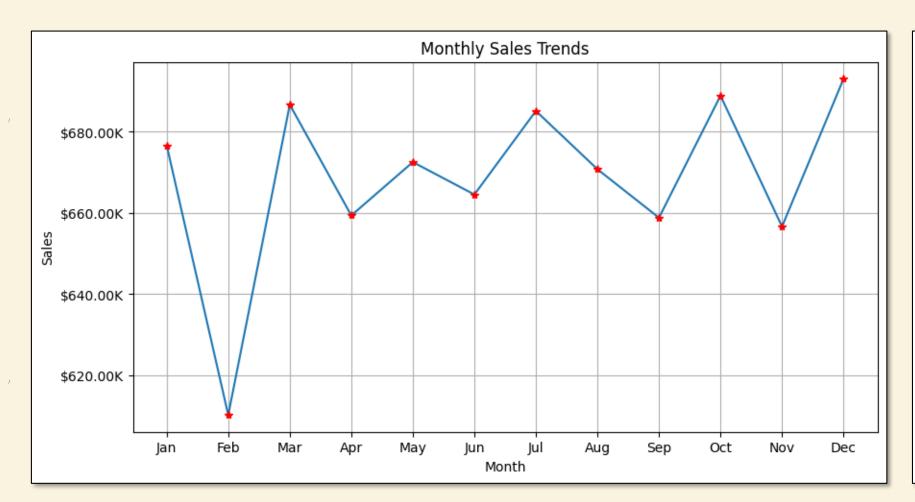
Time Series Chart

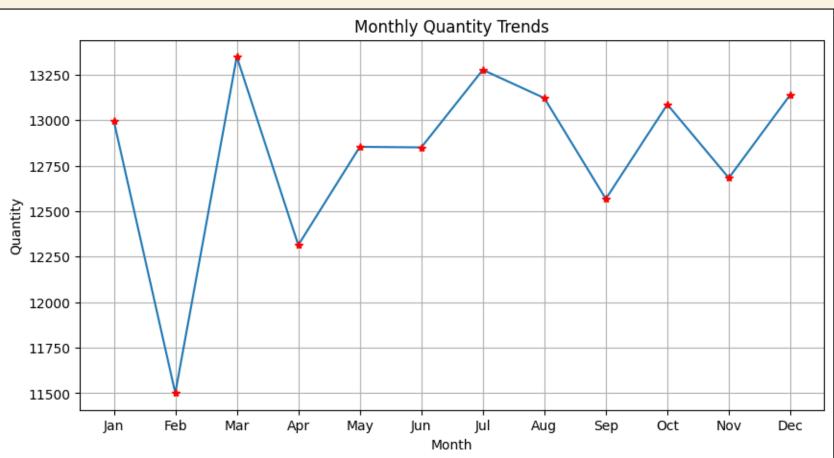
This chart shows data points over a period of time.



Time Series Chart

To analyze the monthly trends based on sales and quantity.



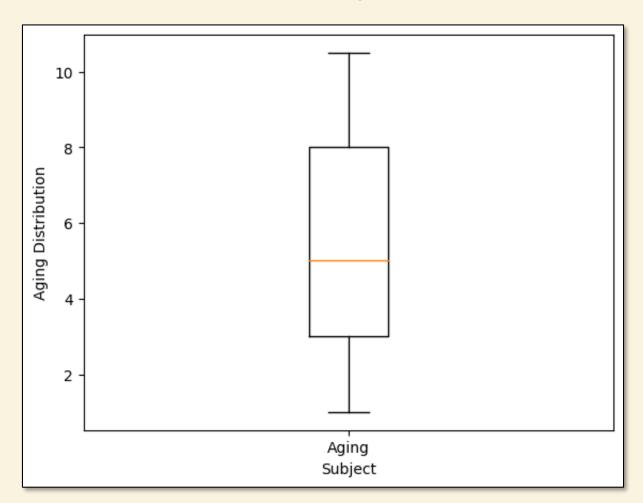


Boxplot & Scatterplot

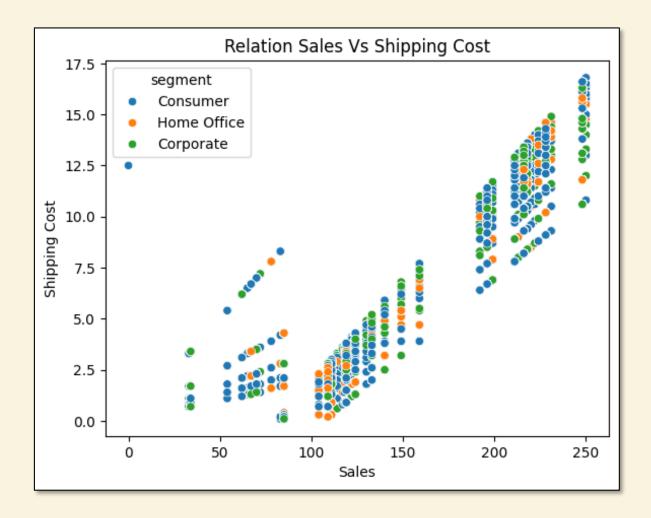


Boxplot & Scatterplot Analysis

Inventory aging is an e-commerce metric used to calculate the total age of inventory on average. It enables companies to find out how long a Stock Keeping Unit (SKU) can remain in a warehouse before it goes up for sale.

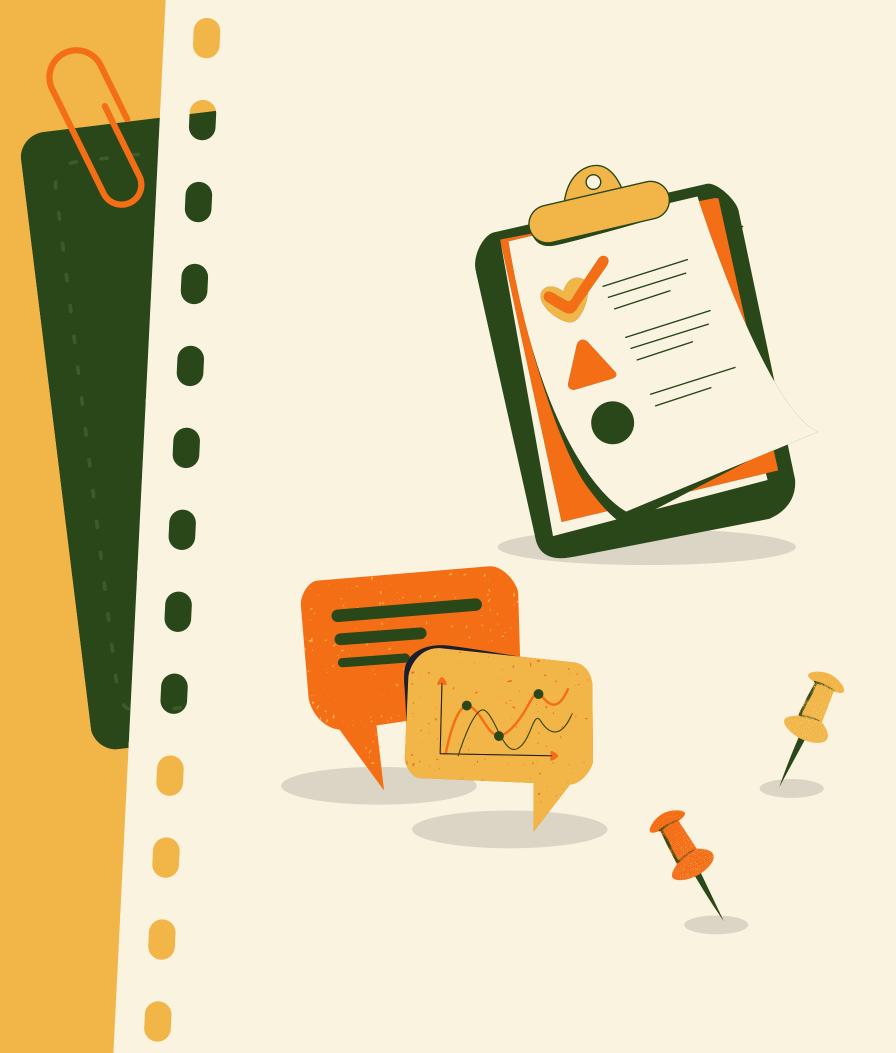


To analyze the distribution of data from the Sales and Shipping Cost columns based on the Segment column.



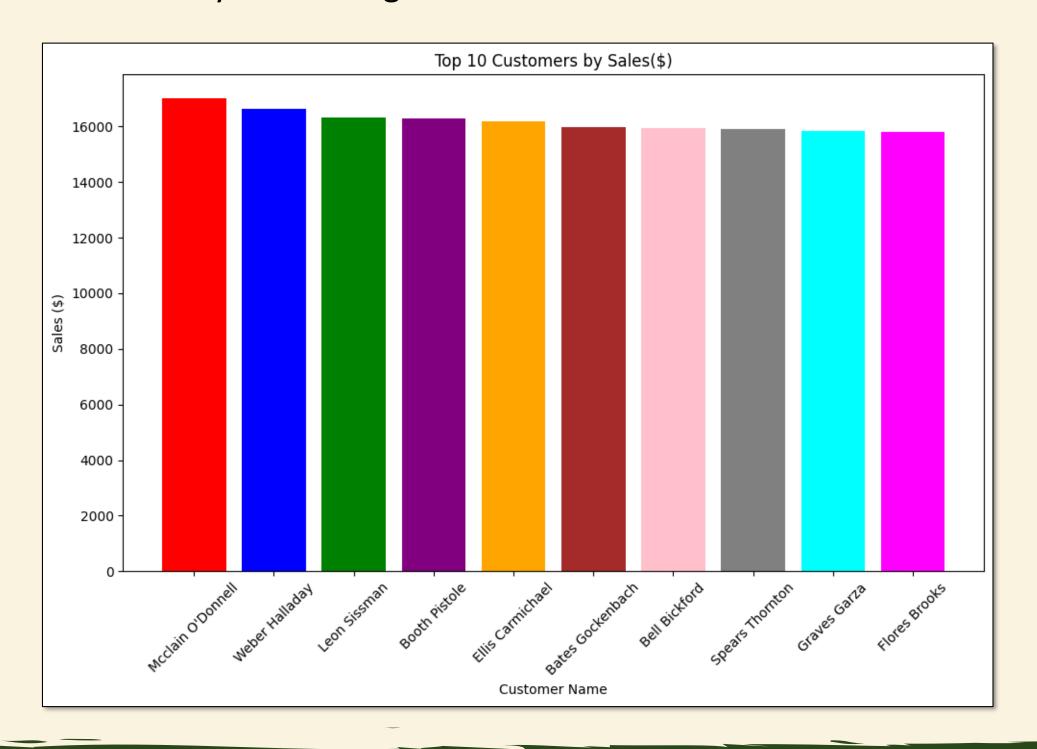
Bar Chart

Visualize the data distribution using a bar chart.



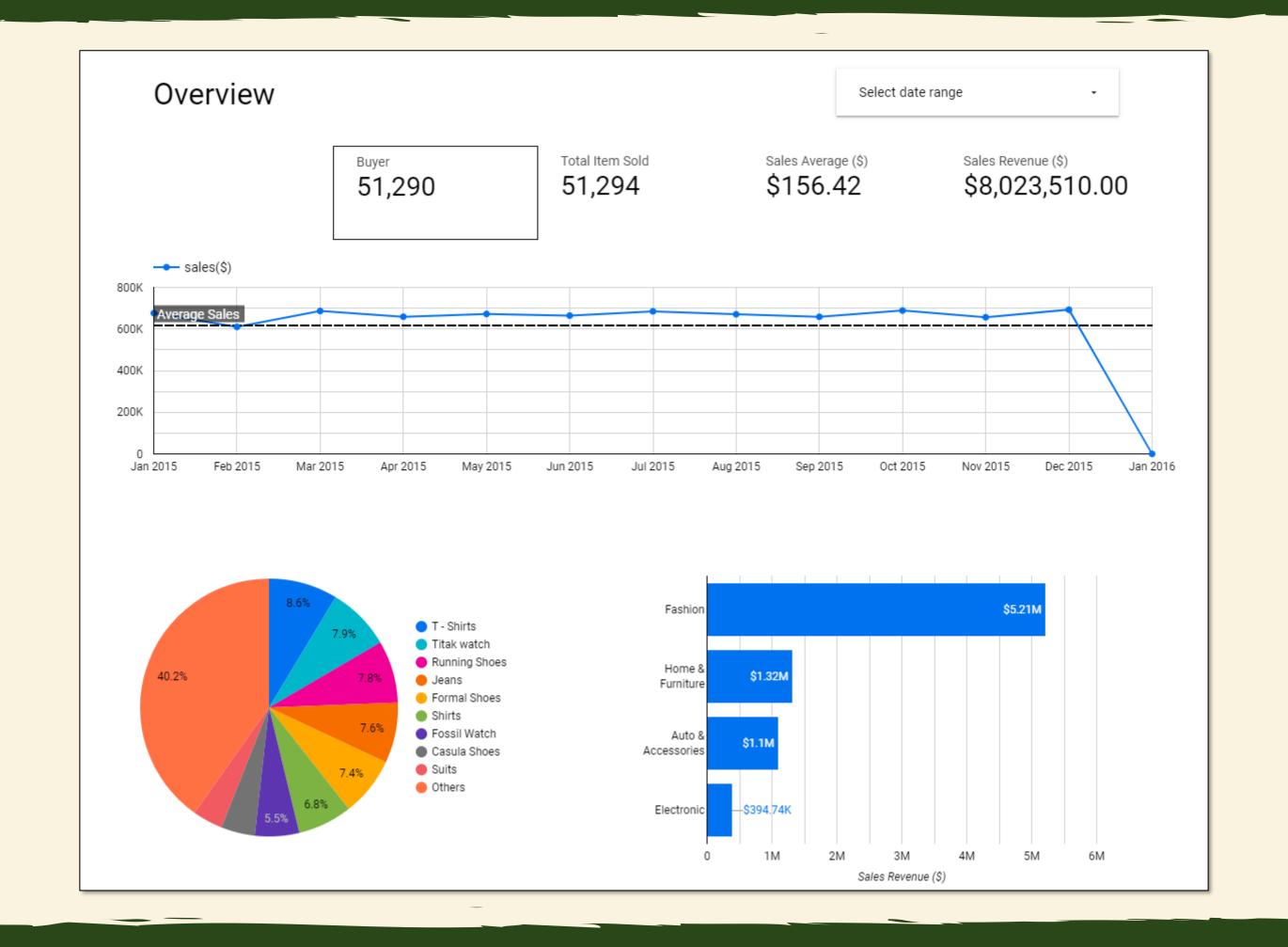
Bar Chart

View the top 10 customers by sales using a bar chart.

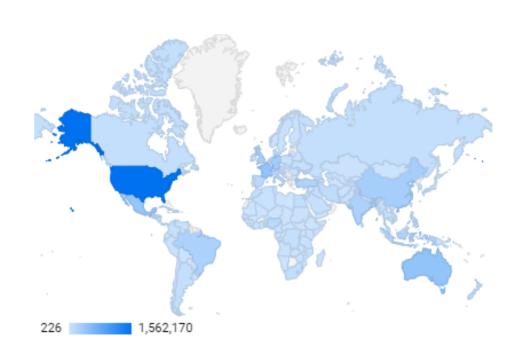


Looker Studio





country



	customer_name	quantity	Discount Amount (\$)	sales(\$) ▼
1.	Mcclain O'Donnell	353	3	\$17,015
2.	Weber Halladay	295	3	\$16,632
3.	Leon Sissman	274	3	\$16,321
4.	Booth Pistole	304	3	\$16,291
5.	Ellis Carmichael	279	3	\$16,174
6.	Bates Gockenbach	314	3	\$15,968
7.	Bell Bickford	285	3	\$15,932
8.	Spears Thornton	342	3	\$15,922
9.	Graves Garza	268	3	\$15,833
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