

edunet  
foundation

# IBM SKILLSBUILD PROJECT

NAME: LALNUNDIKA DARLONG

COLLEGE NAME: SHRI RAM COLLEGE OF COMMERCE

COLLEGE STATE: DELHI

INTERNSHIP DOMAIN: DATA ANALYTICS

INTERNSHIP DATE: 12 JUNE - 24 JULY 2023



# PROBLEM STATEMENT

*We were given a data set containing information pertaining to the transactions and other details of an American super store which we had to analyze.*



# AGENDA

1. *Project Overview*
2. *End Users*
3. *Solution & Value Proposition*
4. *Customization*
5. *Modelling*
6. *Results*
7. *Links*



# PROJECT OVERVIEW

## Purpose

To analyze the data in the Super Store database to draw meaningful conclusions

## Scope

Using Python and Excel to conduct the data analysis

## Objectives

**To Find:**

1. Top Selling Product Types
2. Top Most Profitable Sales
3. Top Discounted Products
4. Top Sales & Profits
5. Sale & Discount Correlation



# **END USERS**

**Super Store Owner(s)**

**Potential Investors**

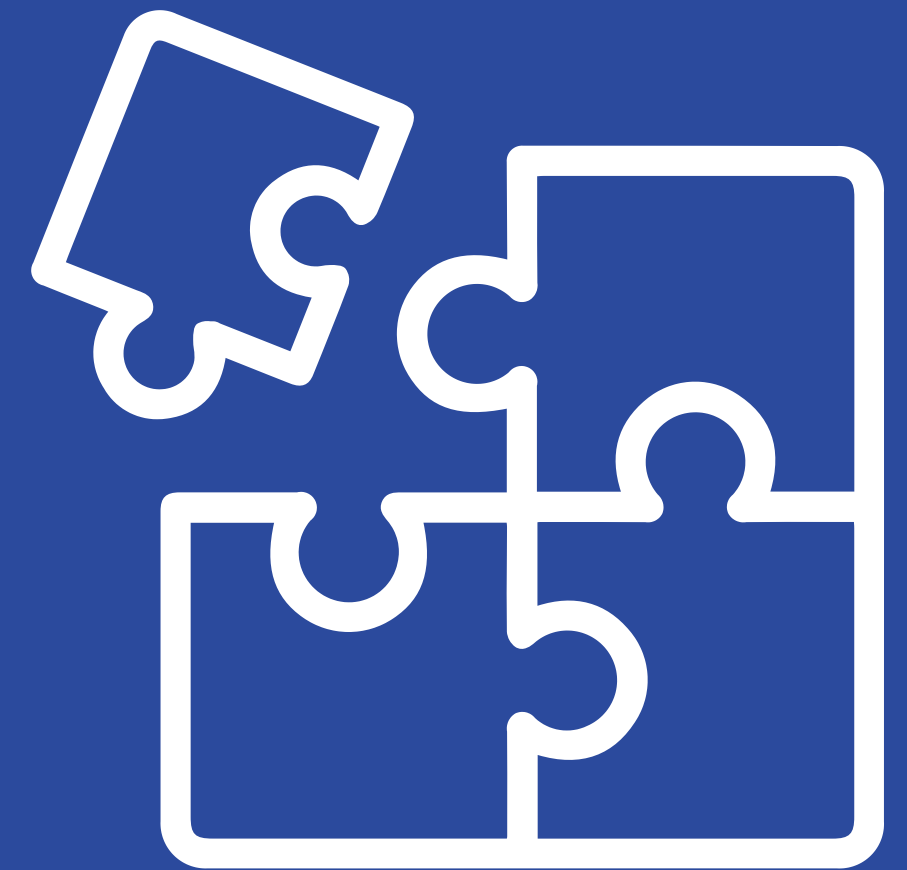
**Marketing Team**

**Sales & Outreach Team**



## SOLUTION

*By analyzing the data to draw conclusions out of sales and profits by region and the correlation between sales and the discounts given, the end users can gauge the long-term feasibility of the superstore and make their decisions accordingly.*



# CUSTOMIZATION

*We chose to present the data visualization in standard bar charts as well as construct a scattergraph to show the correlation between sales and discounts which is something we believe to be somewhat unique.*



# MODELING

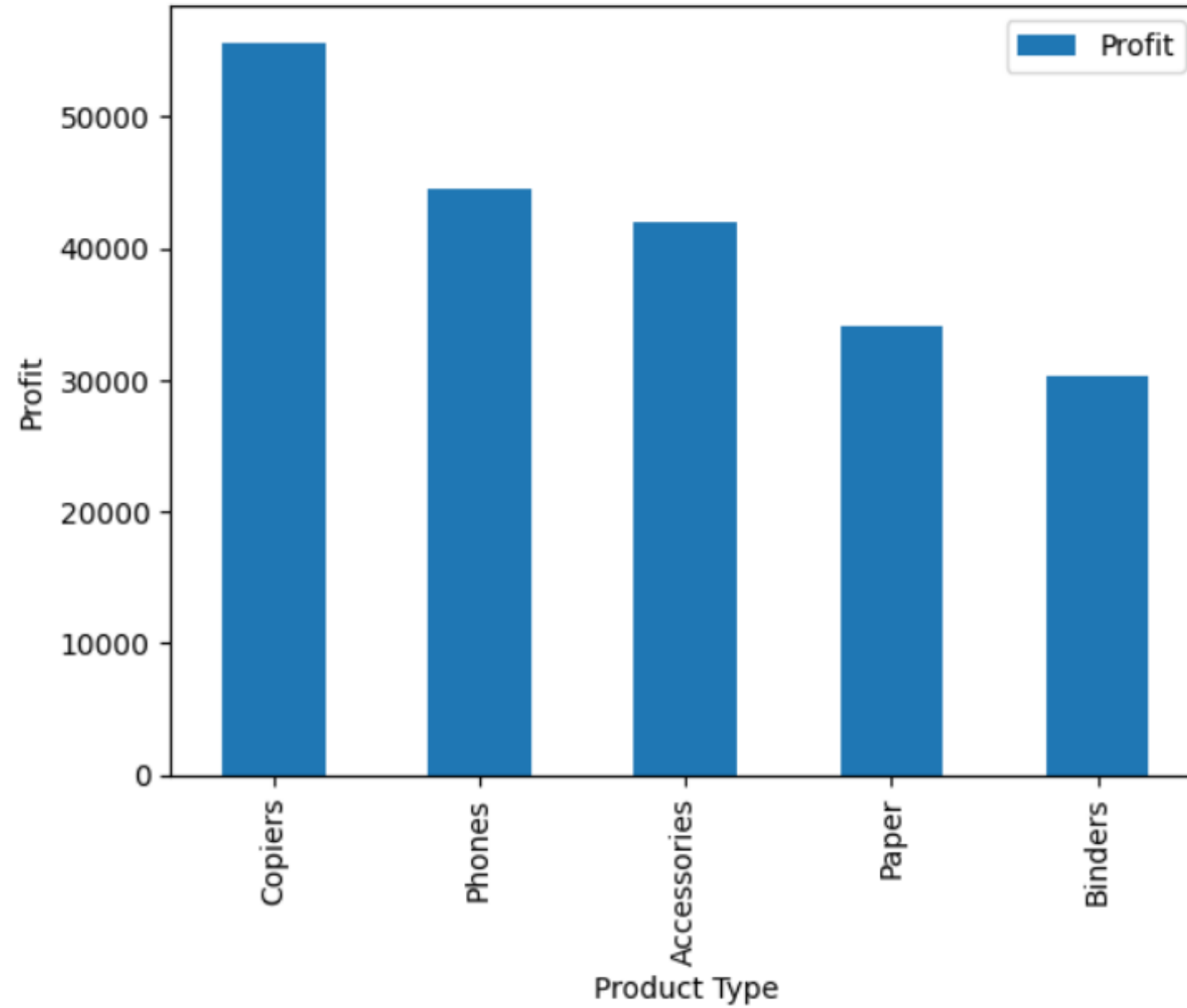
*Pattern recognition, Custom filtering, and data visualization through graphs and charts to showcase trends and highlight differences in datapoints depending on the area.*



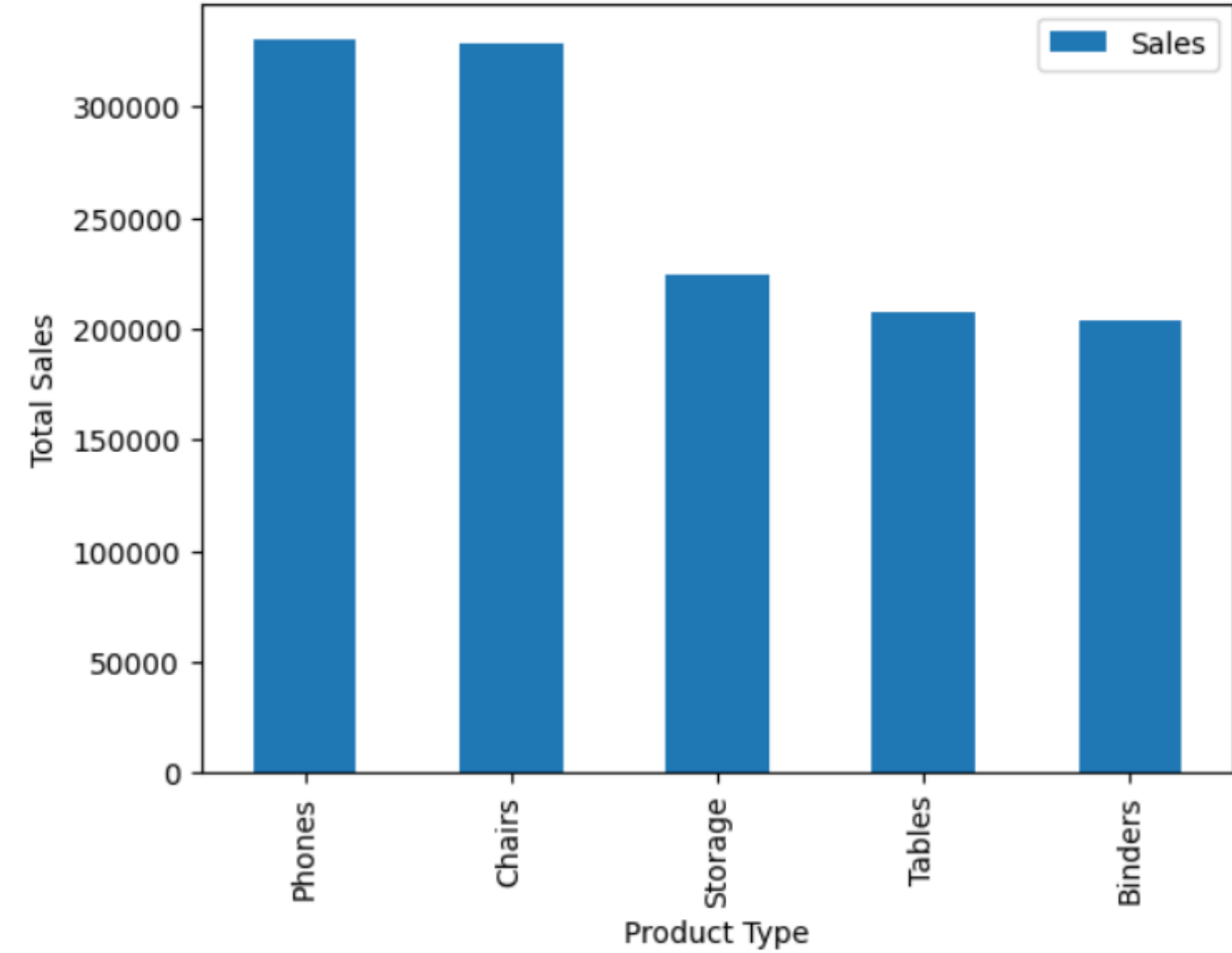


# RESULTS - 1

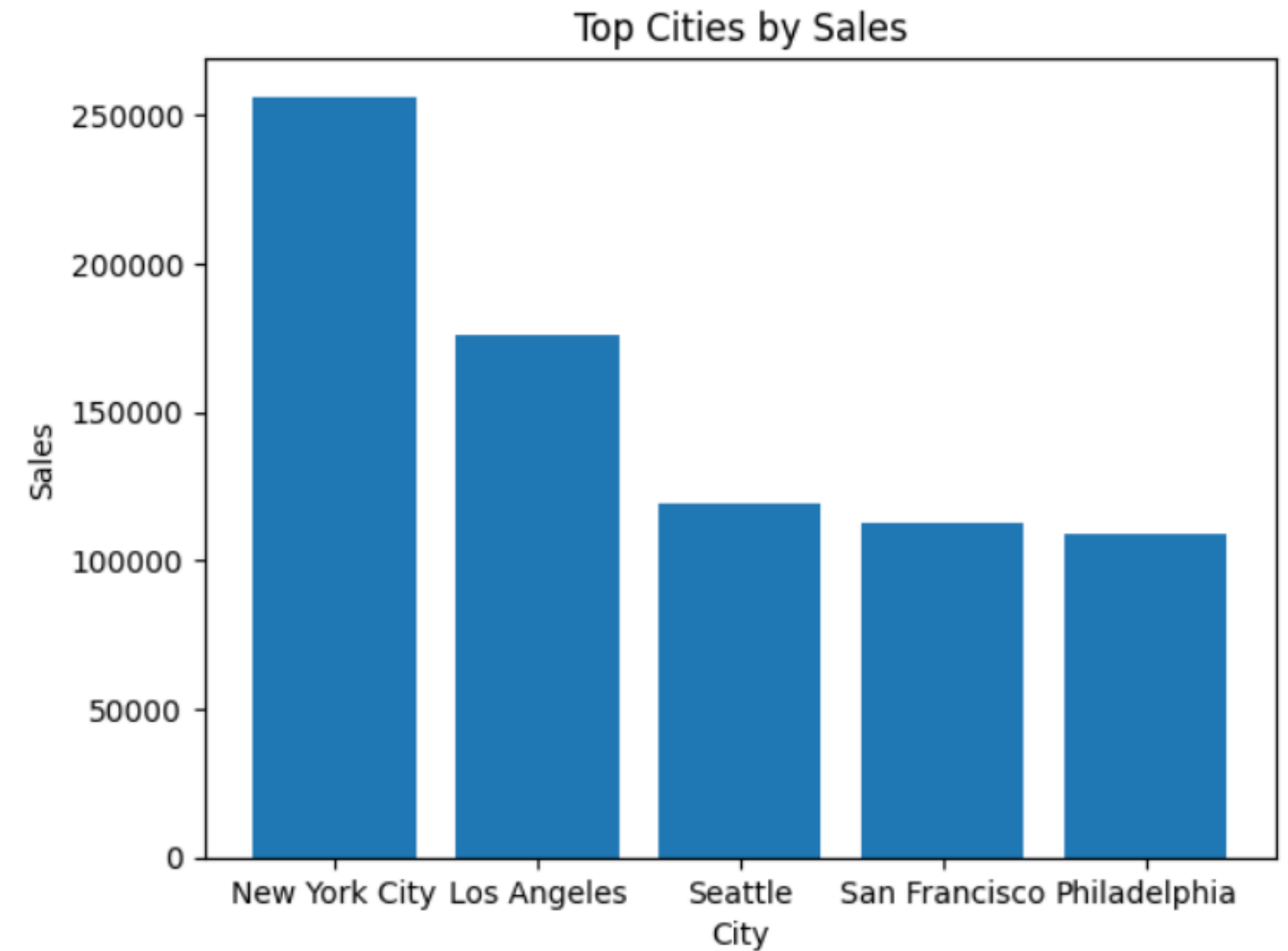
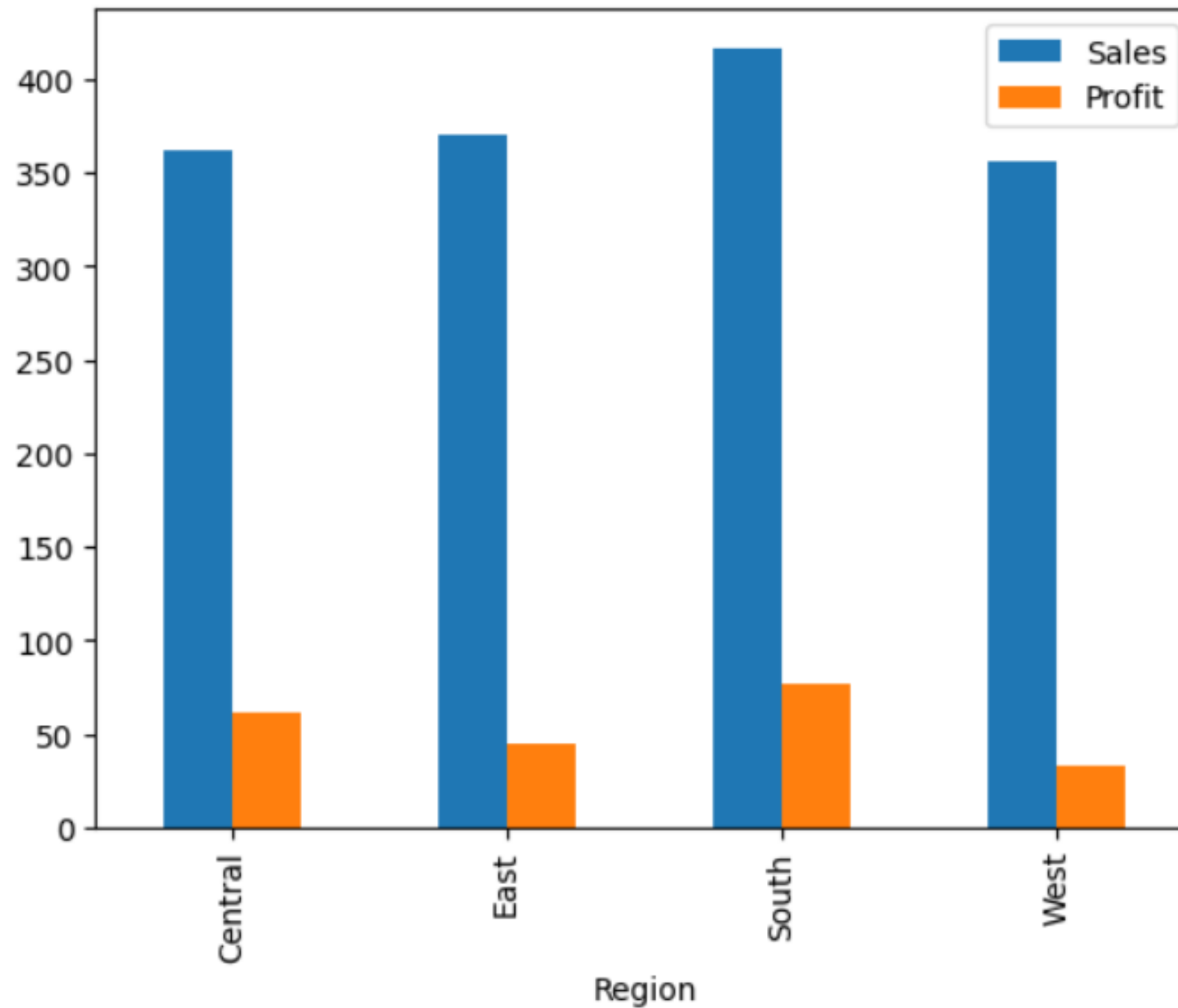
Top 5 most profitting sales



Top 5 Selling Product-type

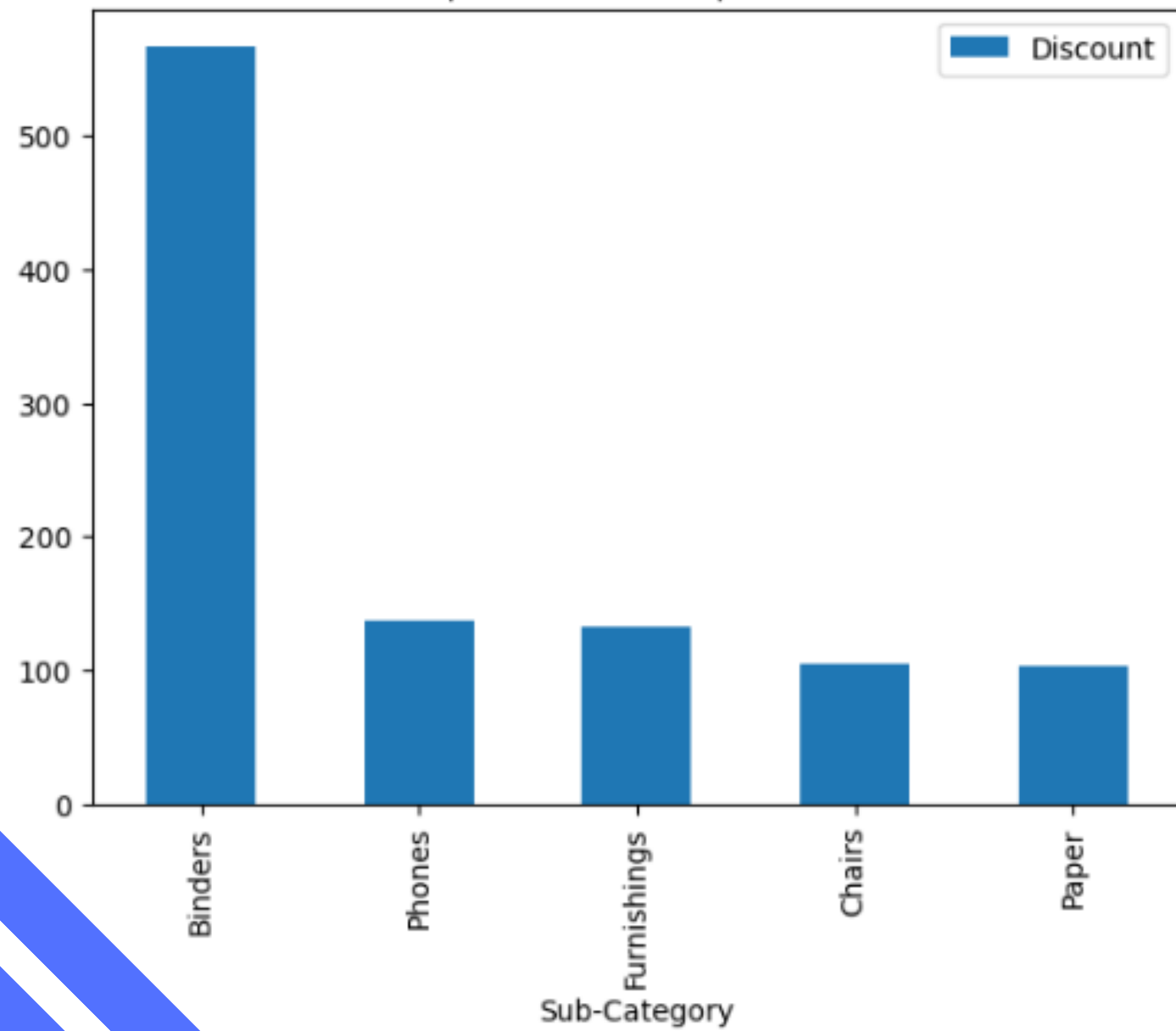


# RESULTS - 2

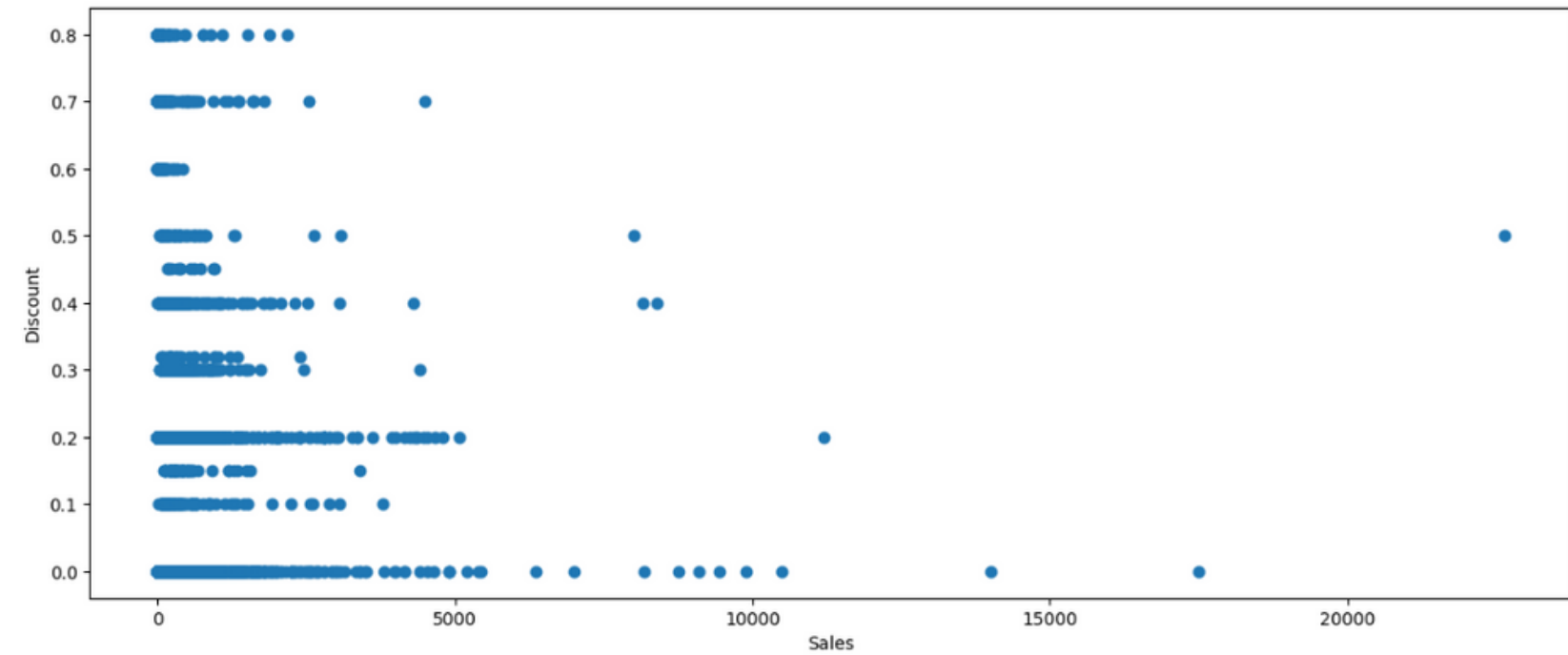


# RESULTS – 3

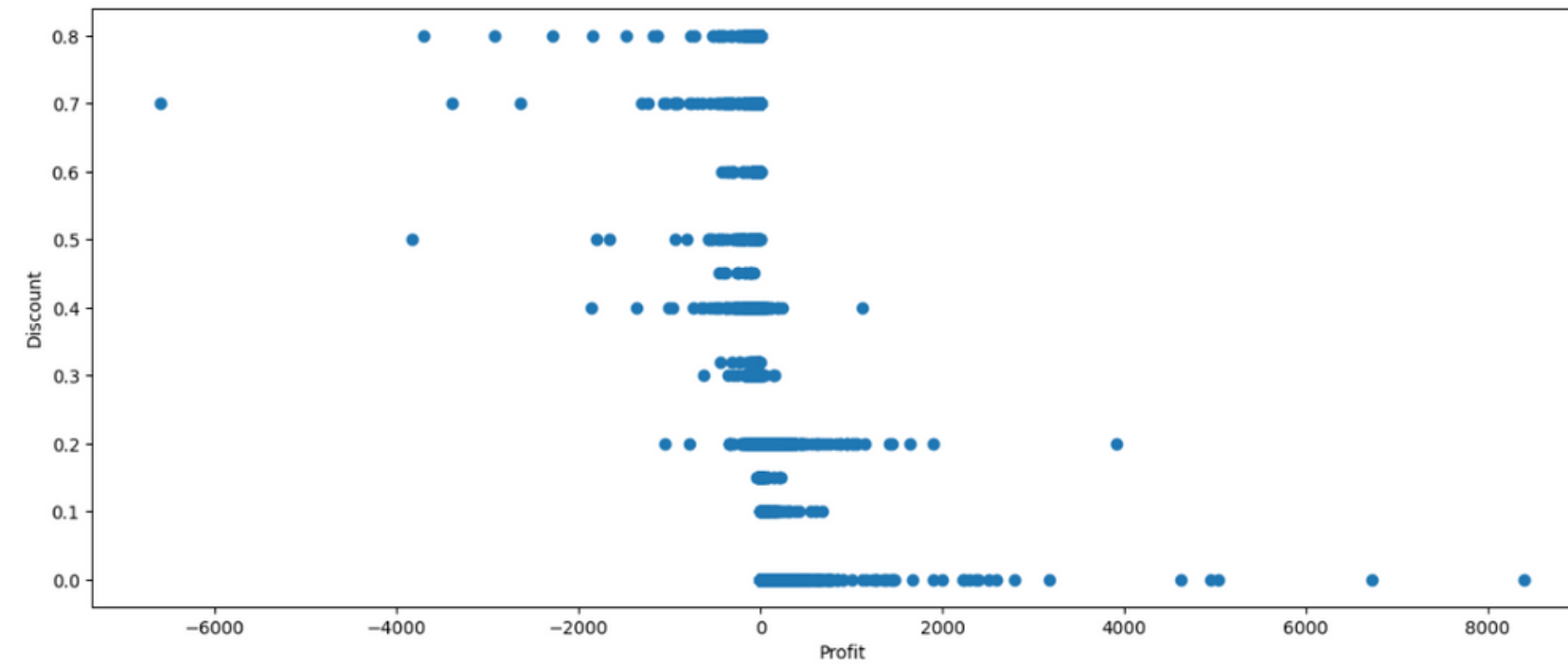
Top 5 Discounted products



```
# Create a scatter plot between sales and discounts
plt.figure(figsize=(15,6))
plt.scatter(df['Sales'],df['Discount'])
plt.ylabel("Discount")
plt.xlabel("Sales")
plt.show()
```



```
# Group the data by the discount and profit
plt.figure(figsize=(15,6))
plt.scatter(df['Profit'],df['Discount'])
plt.ylabel("Discount")
plt.xlabel("Profit")
plt.show()
```

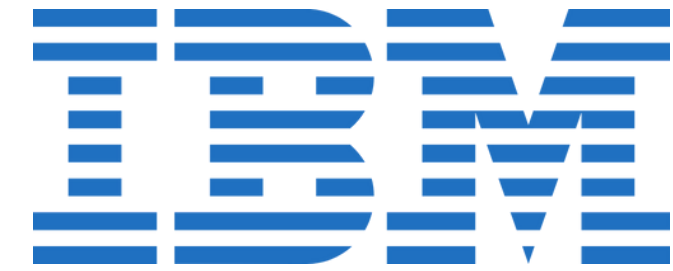


# CONCLUSION

*The primary contributing factor to the decline in sales is attributed to discounts. While certain areas experience losses due to excessive discounts, others witness reduced sales because of fewer promotional offers. As a result, it necessitates improvement in this area.*

*Enhancing sales during festival seasons can be achieved by offering higher discounts, leading to increased customer engagement and greater revenue.*

*In certain cities, sales are relatively low, possibly due to a lack of awareness. To address this, targeted advertising in those regions could potentially boost sales and raise brand visibility.*



# LINKS & REFERENCES

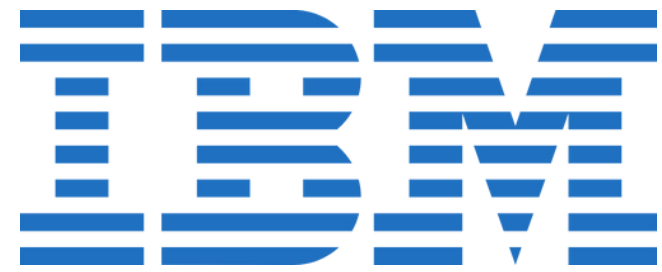
*Github:*

*[https://github.com/LDarlong/Edunet\\_IBM](https://github.com/LDarlong/Edunet_IBM)*

*Article Help:*

*<https://medium.com/analytics-vidhya/exploratory-data-analysis-super-store-cb91c37bcb06>*

# THANK YOU



*Warm Regards,  
Lalnundika Darlong*