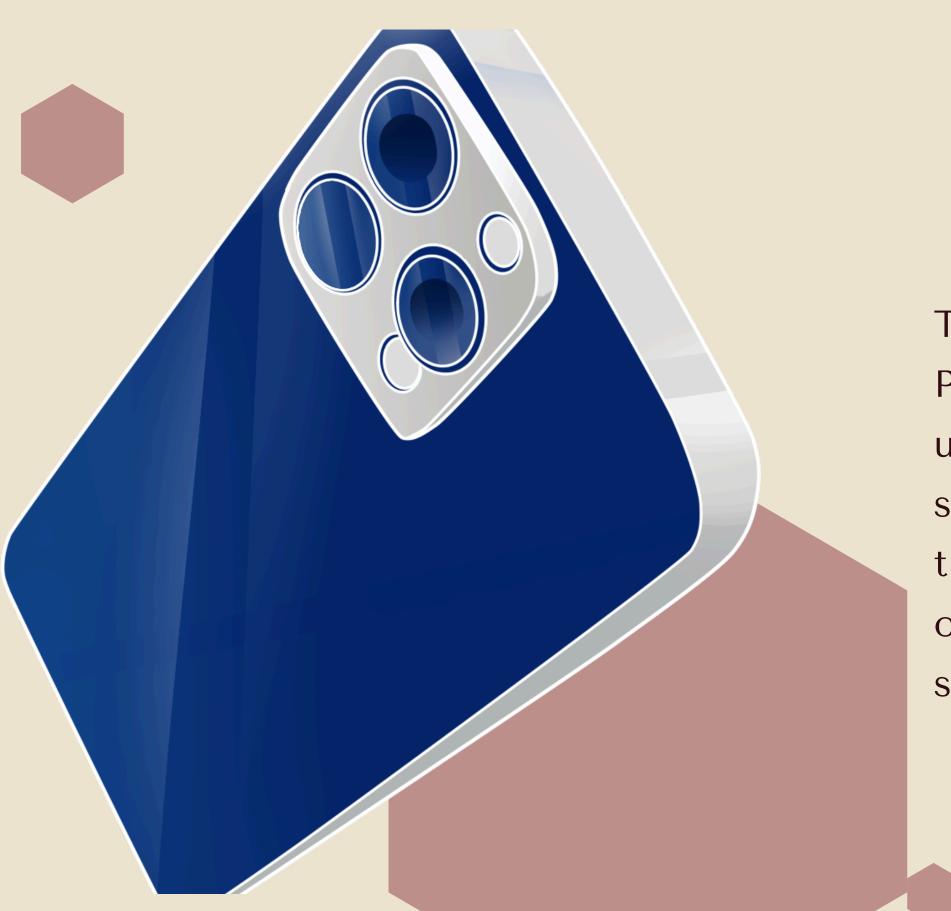
vanshika pachauri

IPHONE SALES ANALYSIS PROJECT REPORT



INTRODUCTION

This project analyzes iPhone sales data using Python tools like Pandas, NumPy, and Plotly to uncover key insights. The analysis will address six key business questions, including sales trends, regional performance, and the impact of pricing and promotions, to help guide strategic decision-making.

SOLVED PROBLEMS

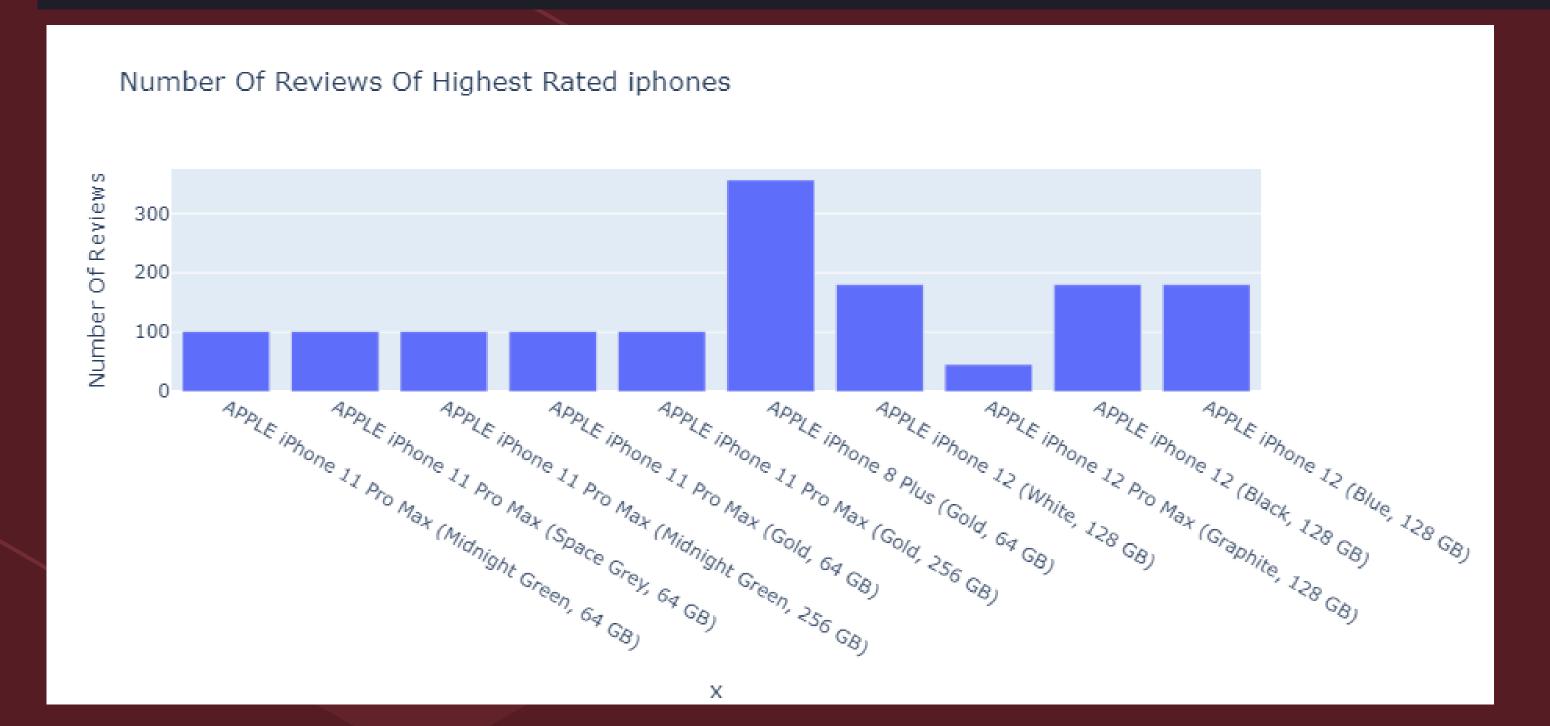
- 1. What are the top 10 highest rated iPhone on flipkart in India?
- 2. How many ratings do the highest rated iphones on flipkart have?
- 3. Which iPhone has the highest number of reviews on flipkart?
- 4. What is the relationship between the sale price of iPhone and the number of ratings on flipkart?
- 5. What is the relationship between the discount percentage and the number of ratings on flipkart?
- 6. Can you figure out the least expensive and most expensive iphones in the india market, along with all their specifications?

1) Top 10 highest rated iphones

```
highest rated = data.sort values(by=["Star Rating"], ascending=False)
 highest rated = highest rated.head(10)
 print(highest rated['Product Name'])
    APPLE iPhone 11 Pro Max (Midnight Green, 64 GB)
         APPLE iPhone 11 Pro Max (Space Grey, 64 GB)
    APPLE iPhone 11 Pro Max (Midnight Green, 256 GB)
               APPLE iPhone 11 Pro Max (Gold, 64 GB)
              APPLE iPhone 11 Pro Max (Gold, 256 GB)
                   APPLE iPhone 8 Plus (Gold, 64 GB)
                     APPLE iPhone 12 (White, 128 GB)
          APPLE iPhone 12 Pro Max (Graphite, 128 GB)
                     APPLE iPhone 12 (Black, 128 GB)
                      APPLE iPhone 12 (Blue, 128 GB)
me: Product Name, dtype: object
```

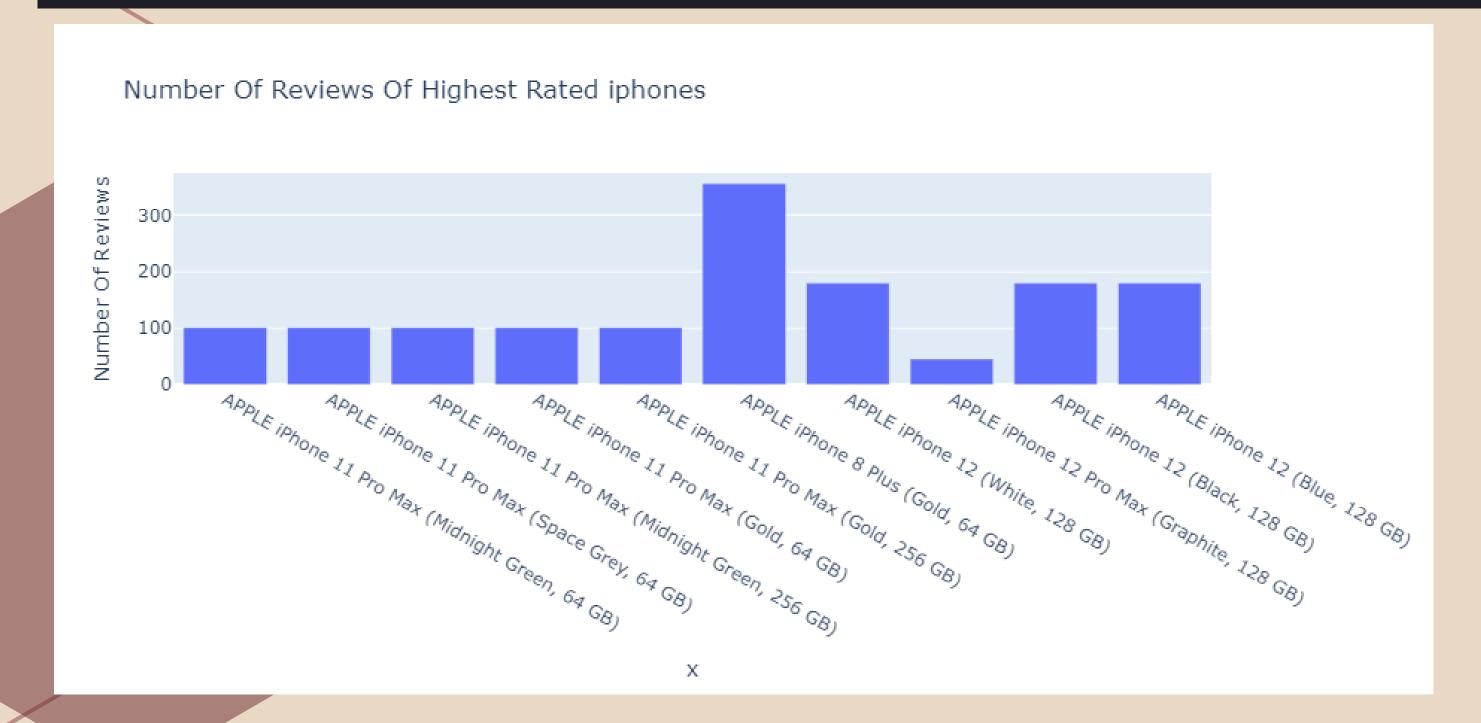
2) ratings of highest rated iphonest

```
iphones = highest_rated["Product Name"].value_counts()
label = iphones.index
counts = highest_rated["Number Of Ratings"]
figure = px.bar(highest_rated, x=label, y = counts, title ="Number Of Ratings Of Highest Rated iphones")
figure.show()
```



3) Highest number of views

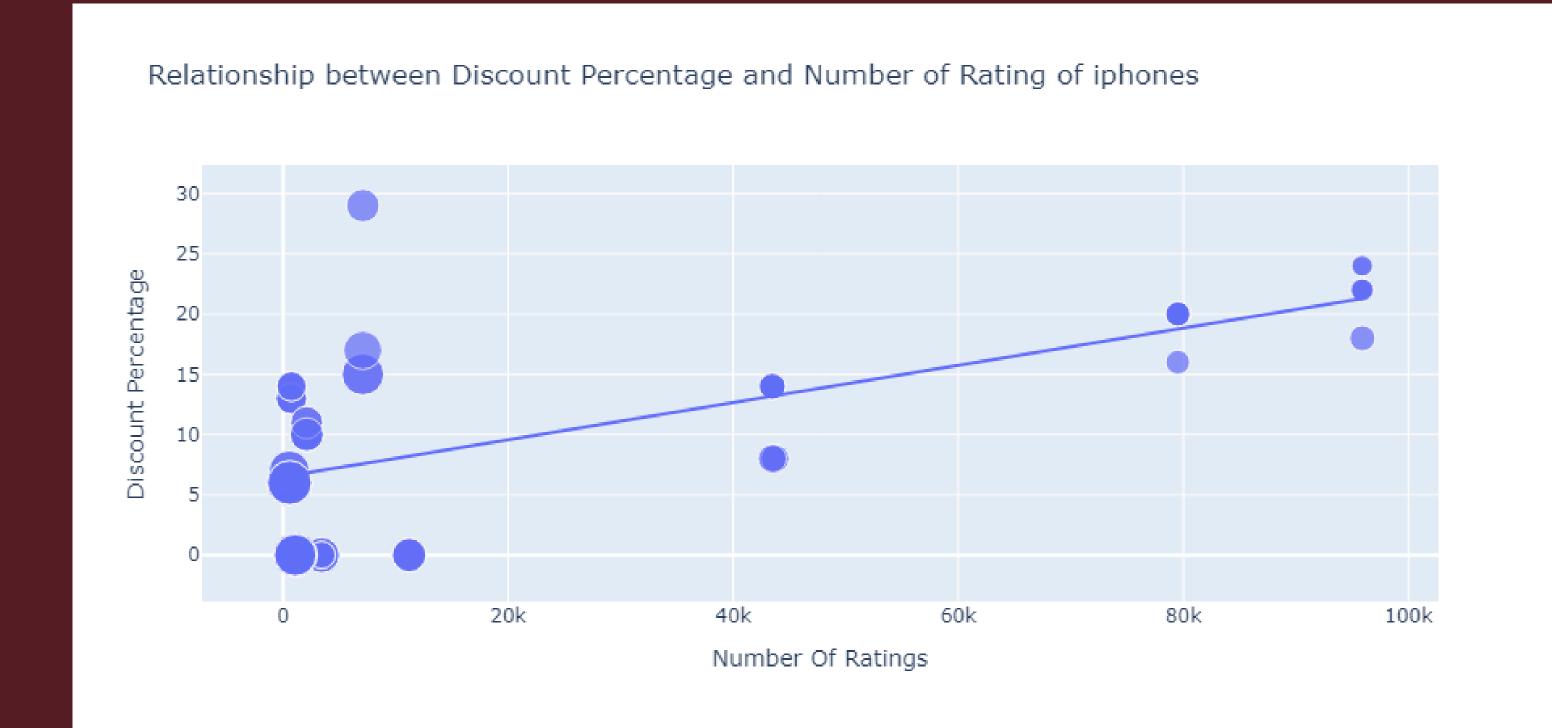
```
iphones = highest_rated["Product Name"].value_counts()
label = iphones.index
counts = highest_rated["Number Of Reviews"]
figure = px.bar(highest_rated, x=label, y = counts, title ="Number Of Reviews Of Highest Rated iphones")
figure.show()
```



4) relationship between sales price and the number of rating



5) relationship between discount percentage and the number of ratings



6) Least and most Expensive iphone with their specifications

```
most_expensive = data.loc[data['Sale Price'].idxmax()]
least_expensive = data.loc[data['Sale Price'].idxmin()]

print("Most Expensive Product:")
print(most_expensive)
print("\nLeast Expensive Product:")
print(least_expensive)
```

```
Most Expensive Product:
Product Name
                                     APPLE iPhone 12 Pro (Silver, 512 GB)
Product URL
                       https://www.flipkart.com/apple-iphone-12-pro-s...
Brand
                                                                     Apple
Sale Price
                                                                    140900
Mrp
                                                                    149900
Discount Percentage
                                                                         6
Number Of Ratings
                                                                       542
Number Of Reviews
                                                                        42
                                                          MOBFWBYZ5UY6ZBVA
Upc
Star Rating
                                                                       4.5
Ram
                                                                      4 GB
Name: 24, dtype: object
Least Expensive Product:
Product Name
                                           APPLE iPhone SE (White, 64 GB)
                       https://www.flipkart.com/apple-iphone-se-white...
Product URL
Brand
                                                                     Apple
Sale Price
                                                                     29999
                                                                     39900
Mrp
                                                                        24
Discount Percentage
Number Of Datings
                                                                     OE007
```