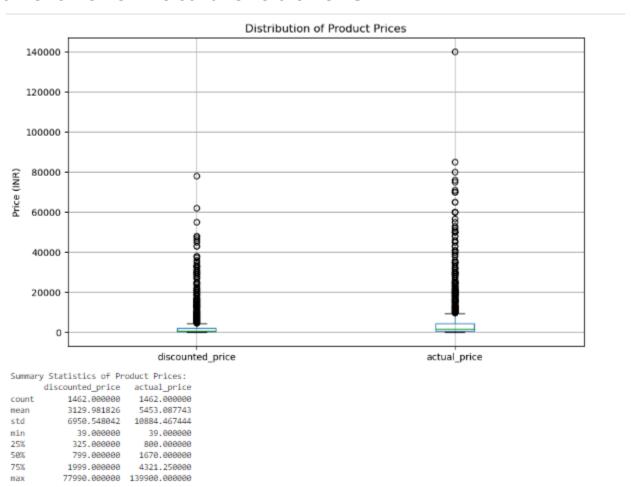
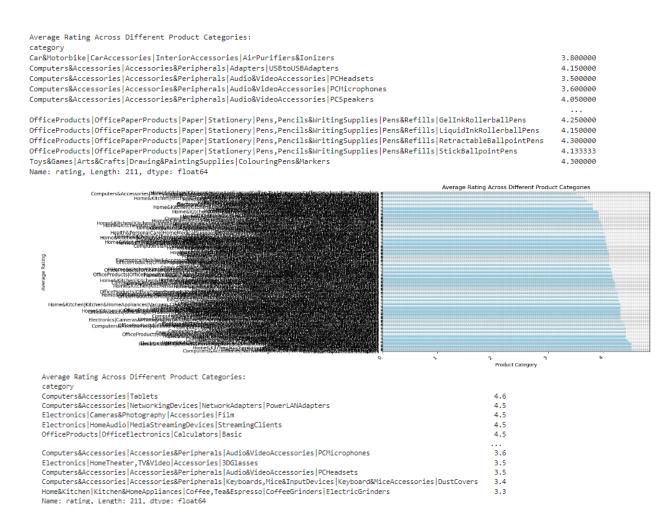
#### AMAZON "EDA" INSIGHT GRAPH BOOK

#### 1. How are product prices distributed, and are there notable outliers?



### 2. What is the average rating across different product categories?

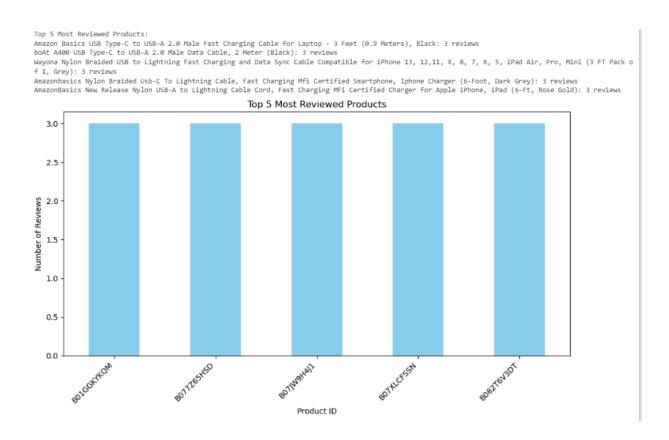


# 3.ls there a correlation between discount percentage and product rating?



Correlation coefficient between discount percentage and product rating: -0.15567900856042

# 4. What are the top 5 most reviewed products, and what insights do their reviews offer?



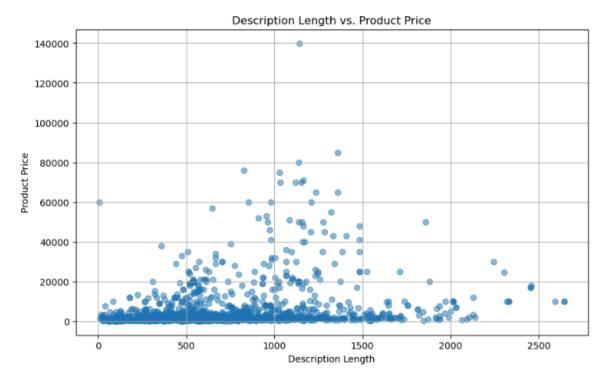
#### 5.Are certain product categories more frequently discounted?

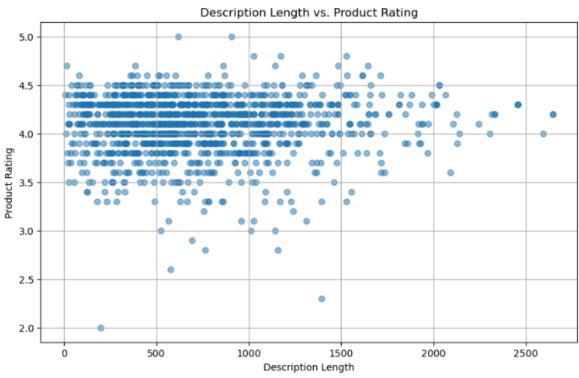
```
Frequency of Discounts by Product Category:
category
Car&Motorbike | CarAccessories | InteriorAccessories | AirPurifiers&Ionizers
                                                                                                                          100.0
Home&Kitchen|Heating,Cooling&AirQuality|Parts&Accessories|FanParts&Accessories
                                                                                                                          100.0
Home&Kitchen|CraftMaterials|DrawingMaterials|DrawingMedia|Pens
                                                                                                                          100.0
Home&Kitchen | CraftMaterials | Scrapbooking | Tape
                                                                                                                          100.0
Home&Kitchen|Heating,Cooling&AirQuality|AirConditioners|Split-SystemAirConditioners
                                                                                                                          100.0
OfficeProducts | OfficeElectronics | Calculators | Basic
                                                                                                                            0.0
Home&Kitchen|Kitchen&HomeAppliances|SmallKitchenAppliances|SmallApplianceParts&Accessories|StandMixerAccessories
                                                                                                                            0.0
Home&Kitchen CraftMaterials PaintingMaterials
                                                                                                                            0.0
Electronics | Cameras & Photography | Accessories | Film
                                                                                                                            0.0
Toys&Games | Arts&Crafts | Drawing&PaintingSupplies | ColouringPens&Markers
Name: discount_percentage, Length: 211, dtype: float64
```

### 6.Do higher-priced products tend to receive higher ratings?

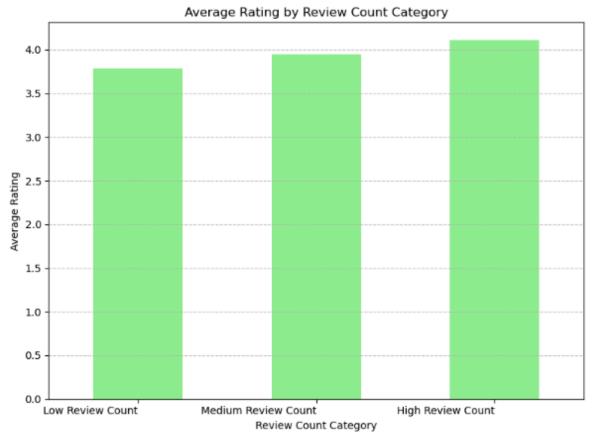


7.ls there a relationship between description length and price or rating?





## 8. How do ratings differ between products with high and low review counts?

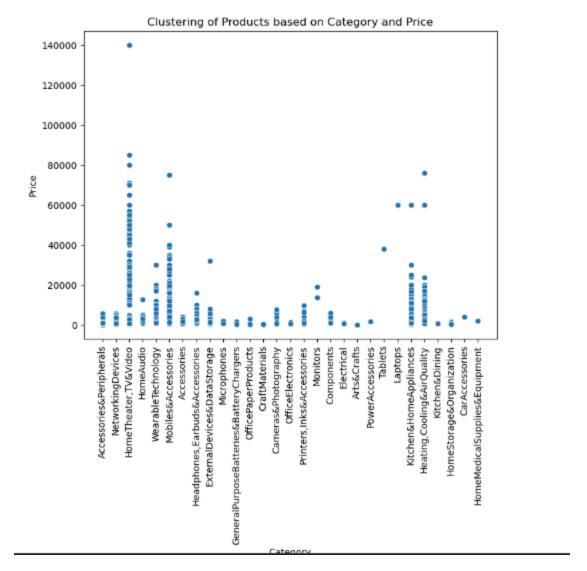


Average Rating by Review Count Category:

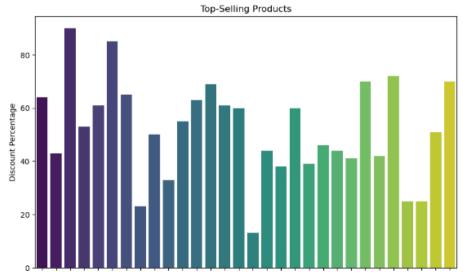
review\_count\_category

Low Review Count 3.781818
Medium Review Count 3.949180
High Review Count 4.105683
Name: rating, dtype: float64

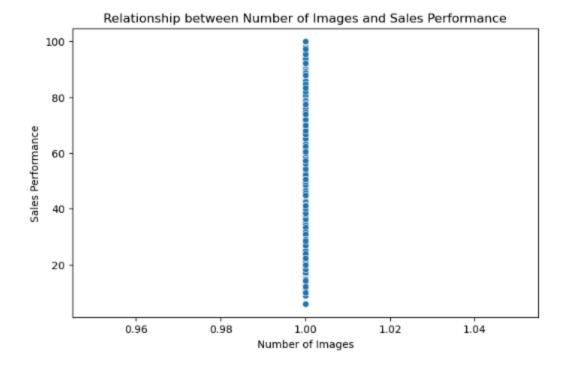
### 9.Can products be clustered based on features and pricing?



10. How does the discount percentage vary across different brands?



11.Is there a relationship between the number of images and sales performance?

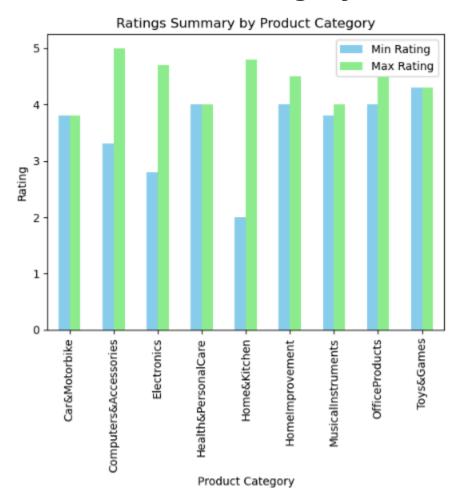


### 12. What are common keywords or phrases in product titles or descriptions?

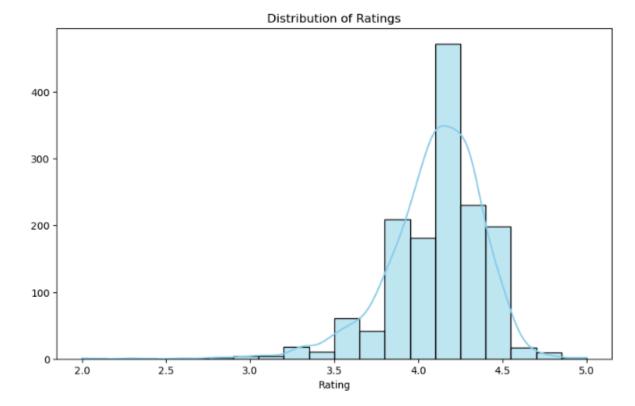
[22]:		product_name
	0	Wayona Nylon Braided USB to Lightning Fast Cha
	1	Ambrane Unbreakable 60W / 3A Fast Charging 1.5
	2	Sounce Fast Phone Charging Cable & Data Sync U
	3	boAt Deuce USB 300 2 in 1 Type-C & Micro USB S
	4	Portronics Konnect L 1.2M Fast Charging 3A 8 P
	1460	Noir Aqua - 5pcs PP Spun Filter + 1 Spanner
	1461	Prestige Delight PRWO Electric Rice Cooker (1
	1462	Bajaj Majesty RX10 2000 Watts Heat Convector R
	1463	Havells Ventil Air DSP 230mm Exhaust Fan (Pist
	1464	Borosil Jumbo 1000-Watt Grill Sandwich Maker (
	1462 rd	ows × 1 columns

with	749				
for	671				
usb	377				
and	329				
cable	318				
charging	217				
to	214				
fast	209				
С	179				
smart	171				
Name: count, dtype: int64					
These are th	ne most common Keywords.				

### 13. Can product rating be predicted based on features and category?

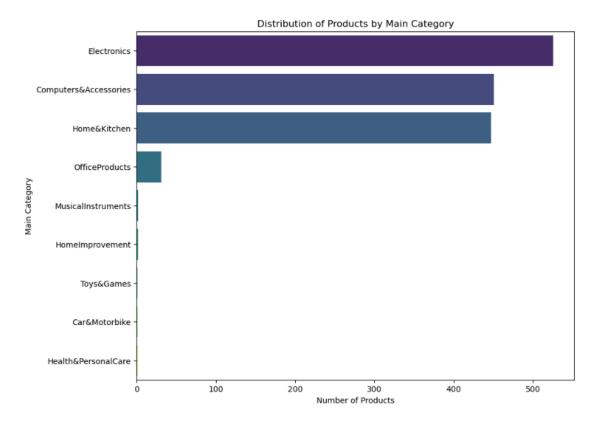


#### **RATING DISTRIBUTION**

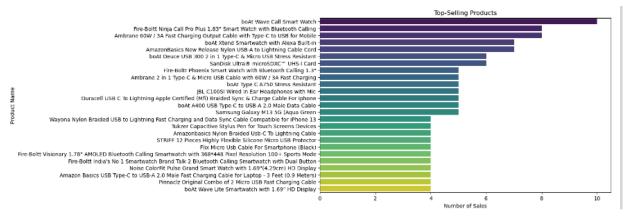


**Product Category Distriution:** 

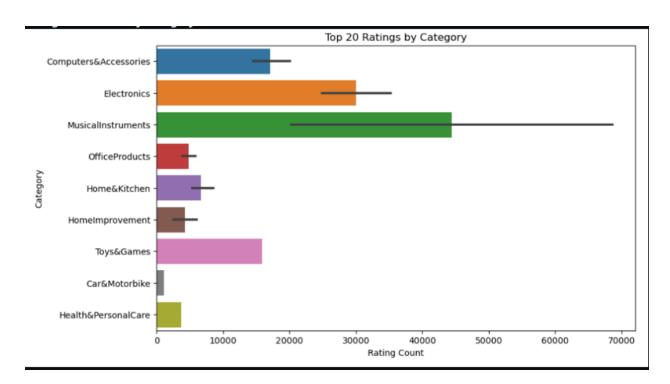
#### PRODUCT CATEGORY DISTRIBUTION



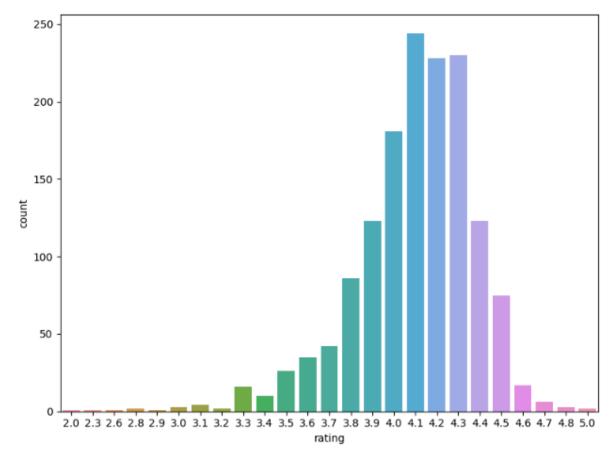
#### **Top Selling Products**



**Rating Distribution by Category** 



#### **Rating Count**



#### **RATING WORD CLOUD**

