## amazon

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#### Introduction

Getting sales insights is transformative for Amazon sellers, as it allows them to understand customer behavior, optimize product offerings, and make data-driven decisions that can significantly boost sales and profitability. Here's a breakdown of how sales insights impact an Amazon business:

#### **Dataset Overview**

Here we will have a quick overview on our data:

- Dataset Features and Observations
- Null Values
- Datatypes

<class 'pandas.core.frame.DataFrame'> RangeIndex: 1465 entries, 0 to 1464 Data columns (total 16 columns): # Column Non-Null Count Dtype product\_id 1465 non-null object 1465 non-null product\_name object category 1465 non-null object discounted\_price 1465 non-null object actual price 1465 non-null object discount percentage 1465 non-null object rating 1465 non-null object rating\_count 1463 non-null object about product 1465 non-null object 1465 non-null 9 user\_id object 1465 non-null 1465 non-null 10 user\_name object 11 review\_id object 12 review title 1465 non-null object 13 review\_content 1465 non-null object 14 img\_link 1465 non-null object 1465 non-null object 15 product link dtypes: object(16) memory usage: 183.3+ KB

	product_id	product_name	category	discounted_price	actual_price	discount_percentage	rating	rating_count	about_produc
)	B07JW9H4J1	Wayona Nylon Braided USB to Lightning Fast Cha	Computers & Accessories   Accessories & Peripherals	₹399	₹1,099	64%	4.2	24,269	Higl Compatibility Compatible With iPhone 12.
	B098NS6PVG	Ambrane Unbreakable 60W / 3A Fast Charging 1.5	Computers & Accessories   Accessories & Peripherals	₹199	₹349	43%	4.0	43,994	Compatible with all Type ( enabled devices, be-
	B096MSW6CT	Sounce Fast Phone Charging Cable & Data Sync U	Computers & Accessories   Accessories & Peripherals	₹199	₹1,899	90%	3.9	7,928	【Fas Charger& Data Sync】-With built-in safet
3	B08HDJ86NZ	boAt Deuce USB 300 2 in 1 Type-C & Micro USB S	Computers & Accessories   Accessories & Peripherals	₹329	₹699	53%	4.2	94,363	The boA Deuce USB 300 2 in 1 cable is compati
ı	B08CF3B7N1	Portronics Konnect L 1.2M Fast Charging 3A 8 P	Computers & Accessories   Accessories & Peripherals	₹154	₹399	61%	4.2	16,905	[CHARGE 8 SYNC FUNCTION] This car comer

### **Feature Engineering**

We will find that there are some Categorical data need to be converted to Quantative data by removing symbols, split values, change Dtype, Removing NaN values.

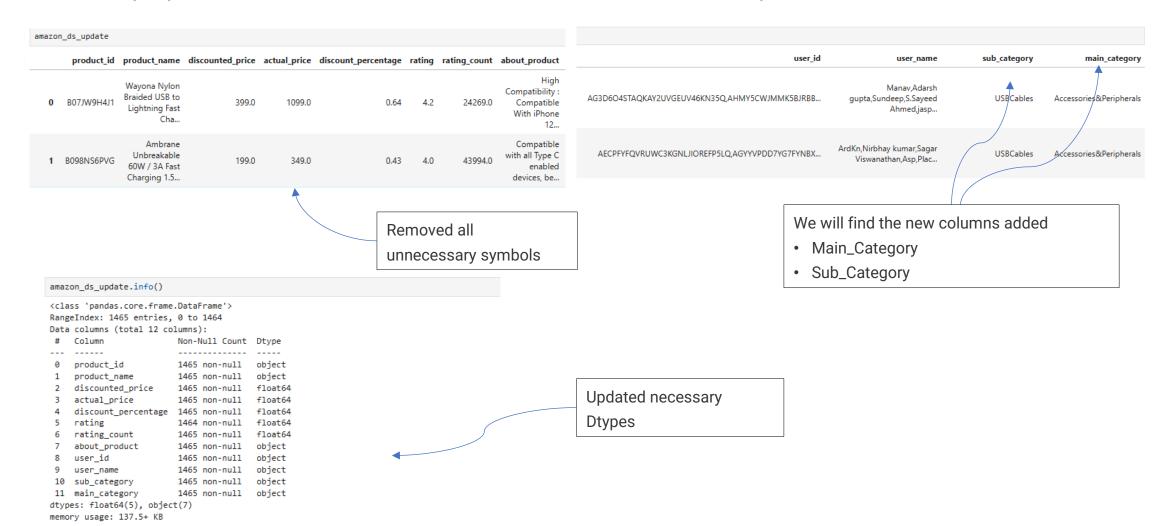


Here we will go through some data cleaning by removing symbols and changing data types

Splitting the category column must be done to figure out the category and subcategory of Items

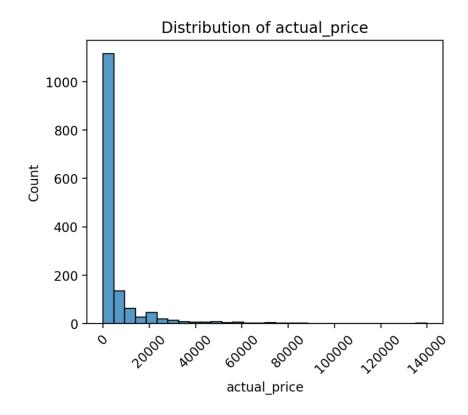
### **Feature Engineering**

After the preparation of the dataset, we will find the new dataset shape

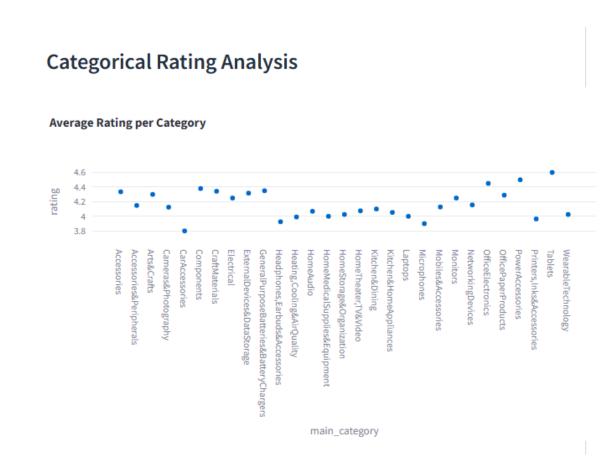


### **Exploratory Data Analysis (EDA)**

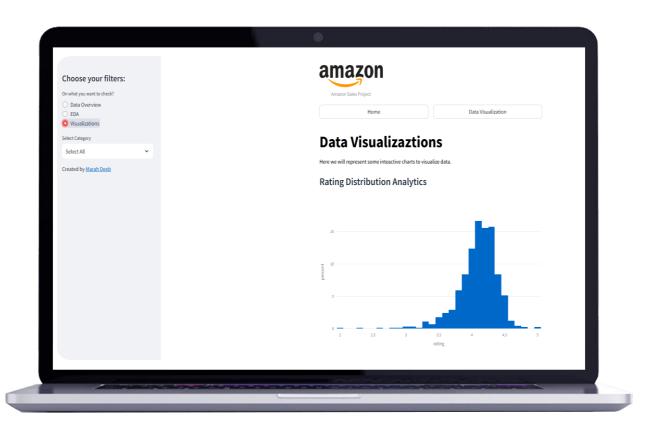
**Uni-Variate Analysis** 



**Bi-Variate Analysis** 



### **Application Overview**



Let's Go through our application through the following URL:
Amazon App

# Any Questions?

# thanks!