

mini-project-big-basket-1

July 31, 2025

```
[78]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

```
[80]: pwd
```

```
[80]: 'C:\\Users\\admin'
```

```
[82]: df = pd.read_csv(r"C:\Users\admin\Downloads\BigBasket Products.csv")
```

```
[83]: df
```

```
[83]:
```

	index	product \
0	1	Garlic Oil - Vegetarian Capsule 500 mg
1	2	Water Bottle - Orange
2	3	Brass Angle Deep - Plain, No.2
3	4	Cereal Flip Lid Container/Storage Jar - Assort...
4	5	Creme Soft Soap - For Hands & Body
...
27550	27551	Wottagirl! Perfume Spray - Heaven, Classic
27551	27552	Rosemary
27552	27553	Peri-Peri Sweet Potato Chips
27553	27554	Green Tea - Pure Original
27554	27555	United Dreams Go Far Deodorant

	category	sub_category \
0	Beauty & Hygiene	Hair Care
1	Kitchen, Garden & Pets	Storage & Accessories
2	Cleaning & Household	Pooja Needs
3	Cleaning & Household	Bins & Bathroom Ware
4	Beauty & Hygiene	Bath & Hand Wash
...
27550	Beauty & Hygiene	Fragrances & Deos
27551	Gourmet & World Food	Cooking & Baking Needs
27552	Gourmet & World Food	Snacks, Dry Fruits, Nuts
27553	Beverages	Tea

	Beauty & Hygiene	Men's Grooming	
	brand	sale_price	market_price \
0	Sri Sri Ayurveda	220.00	220.0
1	Mastercook	180.00	180.0
2	Trm	119.00	250.0
3	Nakoda	149.00	176.0
4	Nivea	162.00	162.0
...
27550	Layerr	199.20	249.0
27551	Puramate	67.50	75.0
27552	FabBox	200.00	200.0
27553	Tetley	396.00	495.0
27554	United Colors Of Benetton	214.53	390.0

	type	rating \
0	Hair Oil & Serum	4.1
1	Water & Fridge Bottles	2.3
2	Lamp & Lamp Oil	3.4
3	Laundry, Storage Baskets	3.7
4	Bathing Bars & Soaps	4.4
...
27550	Perfume	3.9
27551	Herbs, Seasonings & Rubs	4.0
27552	Nachos & Chips	3.8
27553	Tea Bags	4.2
27554	Men's Deodorants	4.5

	description
0	This Product contains Garlic Oil that is known...
1	Each product is microwave safe (without lid), ...
2	A perfect gift for all occasions, be it your m...
3	Multipurpose container with an attractive desi...
4	Nivea Creme Soft Soap gives your skin the best...
...	...
27550	Layerr brings you Wottagirl Classic fragrant b...
27551	Puramate rosemary is enough to transform a dis...
27552	We have taken the richness of Sweet Potatoes (...)
27553	Tetley Green Tea with its refreshing pure, ori...
27554	The new mens fragrance from the United Dreams ...

[27555 rows x 10 columns]

Index—Simply the Index

```
[97]: print(df.index)
```

```
RangeIndex(start=0, stop=27555, step=1)
```

product - Title of the product (as they're listed)

```
[105]: print(df['product'].head(40))
```

```
0          Garlic Oil - Vegetarian Capsule 500 mg
1                Water Bottle - Orange
2          Brass Angle Deep - Plain, No.2
3  Cereal Flip Lid Container/Storage Jar - Assort...
4          Creme Soft Soap - For Hands & Body
5          Germ - Removal Multipurpose Wipes
6                Multani Mati
7          Hand Sanitizer - 70% Alcohol Base
8  Biotin & Collagen Volumizing Hair Shampoo + Bi...
9          Scrub Pad - Anti- Bacterial, Regular
10         Wheat Grass Powder - Raw
11         Butter Cookies Gold Collection
12         Face Wash - Oil Control, Active
13         Mold & Mildew Remover with Bleach
14  Just Spray - Mosquito Repellent Room Spray
15  Dove Plastic Soap Case - Assorted Colour
16         Smooth Skin Oil - For Dry Skin
17         Salted Pumpkin
18         Flax Seeds - Roasted
19         Organic Tofu - Soy Paneer
20  Ceramic Barrel Brush - Colour May Vary
21  Instant Noodles - Chicken Satay Flavor
22         Chia Seeds
23  Cleanse Green Tea - Whole Leaf Loose Tea
24         Veggie Cutter
25  Insulated Hot Fresh Casserole For Roti/Chapati...
26         Granola - Happy Berries
27         Flaxseed - Pesticide Free
28         Paratha Puff
29         Lip Butter - Rose
30  Fruit Power - Masala Sugarcane
31  Chocobakes Choc Filled Cookies
32         Amber - Deodorant Body Spray
33         Green Tea - Tulsi Loose Leaf
34  Pet Solitaire Container Set - Silver
35         Dhania - Dal
36         Pudina Chutney Masala
37  Bodylicious Deodorant Spray - Mate (For Men)
38         Sport Deo Spray - Fresh, for Men
39         Choco Deck - Mini Delights
Name: product, dtype: object
```

```
[ ]:
```

category - Category into which product has been classified

```
[135]: print(df[['product', 'category']].head())
```

	product	category
0	Garlic Oil - Vegetarian Capsule 500 mg	Beauty & Hygiene
1	Water Bottle - Orange	Kitchen, Garden & Pets
2	Brass Angle Deep - Plain, No.2	Cleaning & Household
3	Cereal Flip Lid Container/Storage Jar - Assort...	Cleaning & Household
4	Creame Soft Soap - For Hands & Body	Beauty & Hygiene

```
[ ]:
```

sub_category - Subcategory into which product has been kept

```
[137]: print(df[['product', 'sub_category']].head())
```

	product	sub_category
0	Garlic Oil - Vegetarian Capsule 500 mg	Hair Care
1	Water Bottle - Orange	Storage & Accessories
2	Brass Angle Deep - Plain, No.2	Pooja Needs
3	Cereal Flip Lid Container/Storage Jar - Assort...	Bins & Bathroom Ware
4	Creame Soft Soap - For Hands & Body	Bath & Hand Wash

```
[ ]:
```

brand - Brand of the product

```
[139]: print(df[['product', 'brand']].head())
```

	product	brand
0	Garlic Oil - Vegetarian Capsule 500 mg	Sri Sri Ayurveda
1	Water Bottle - Orange	Mastercook
2	Brass Angle Deep - Plain, No.2	Trm
3	Cereal Flip Lid Container/Storage Jar - Assort...	Nakoda
4	Creame Soft Soap - For Hands & Body	Nivea

```
[ ]:
```

```
[ ]: sale_price - Price at which product is being sold on the site
```

```
[133]: print(df[['product', 'sale_price']].head())
```

	product	sale_price
0	Garlic Oil - Vegetarian Capsule 500 mg	220.0
1	Water Bottle - Orange	180.0
2	Brass Angle Deep - Plain, No.2	119.0
3	Cereal Flip Lid Container/Storage Jar - Assort...	149.0
4	Creame Soft Soap - For Hands & Body	162.0

```
[ ]:
```

market_price - Market price of the product

```
[127]: print(df[['product', 'sale_price']])
```

	product	sale_price
0	Garlic Oil - Vegetarian Capsule 500 mg	220.00
1	Water Bottle - Orange	180.00
2	Brass Angle Deep - Plain, No.2	119.00
3	Cereal Flip Lid Container/Storage Jar - Assort...	149.00
4	Creame Soft Soap - For Hands & Body	162.00
...
27550	Wottagirl! Perfume Spray - Heaven, Classic	199.20
27551	Rosemary	67.50
27552	Peri-Peri Sweet Potato Chips	200.00
27553	Green Tea - Pure Original	396.00
27554	United Dreams Go Far Deodorant	214.53

[27555 rows x 2 columns]

```
[ ]:
```

type - Type into which product falls

```
[143]: print(df['type'].value_counts())
```

type	
Face Care	1508
Ayurveda	538
Men's Deodorants	500
Shampoo & Conditioner	461
Glassware	415
...	
Bagels & Baguette	1
Roses	1
Marinated Meat	1
Organic Eggs	1
Turkey & Duck	1

Name: count, Length: 426, dtype: int64

```
[ ]:
```

rating - Rating the product has got from its consumers

```
[145]: topRated = df[['product', 'rating']].sort_values(by='rating', ascending=False)
print(topRated.head())
```

	product	rating
8987	Bernard Scot Ice Bucket With Tong & Glasses/Tu...	5.0
8267	Skin-Fit Tablets - Improves Skin Health	5.0
19459	Disposable Face Mask - Melt Blown, 3 Ply	5.0
19447	Caviar Rejuvenate & Protecting Face Mask Sheet	5.0
25246	Adult Dry Dog Food - Chicken & Rice	5.0

[]:

description - Description of the dataset (in detail)

[]:

[]:

[]:

[]:

[]: