

PDS RESULTS

ASSIGNMENT 3

NAGINENI SAI LASYA
16353784

1) Use any open-source API to access some data in Jason format and then parse the Jason data and display it as some kind of dashboard (20 points).

a. When consuming APIs with Python, you may use python library: requests. With it, you should be able to do most, if not all, of the actions required to consume any public API (for example open weather API or Random User Generator API, or traffic API etc.) below are some examples of the real-time APIs

Ans: Here comes pic of the data I retrieved

✓ A) I have taken real_time _amazon data on open API in JSON Format and I extract the JSON data from it

```
import requests

url = "https://real-time-amazon-data.p.rapidapi.com/search"
querystring = {"query":"Phone","page":"1","country":"US","category_id":"aps"}

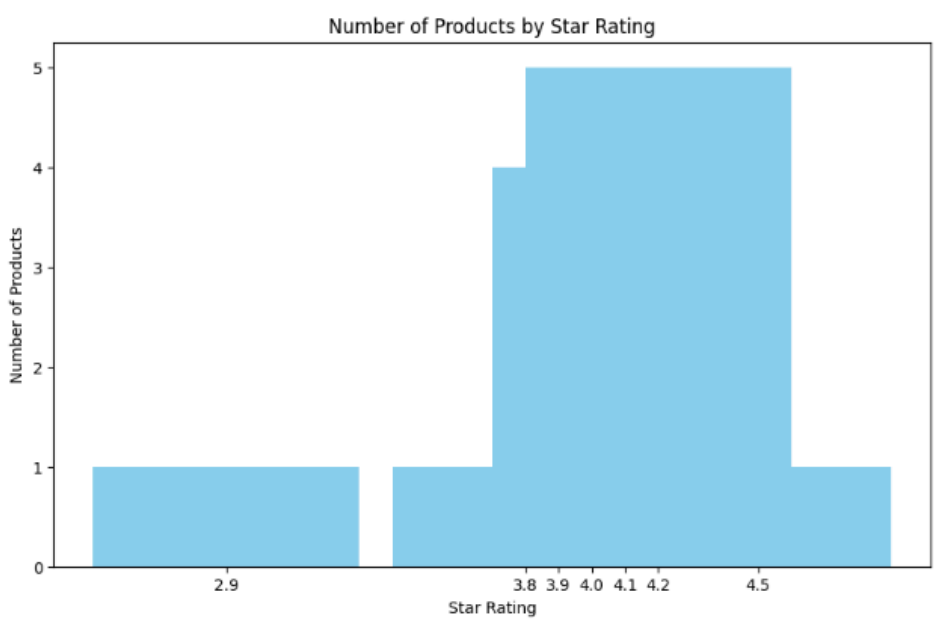
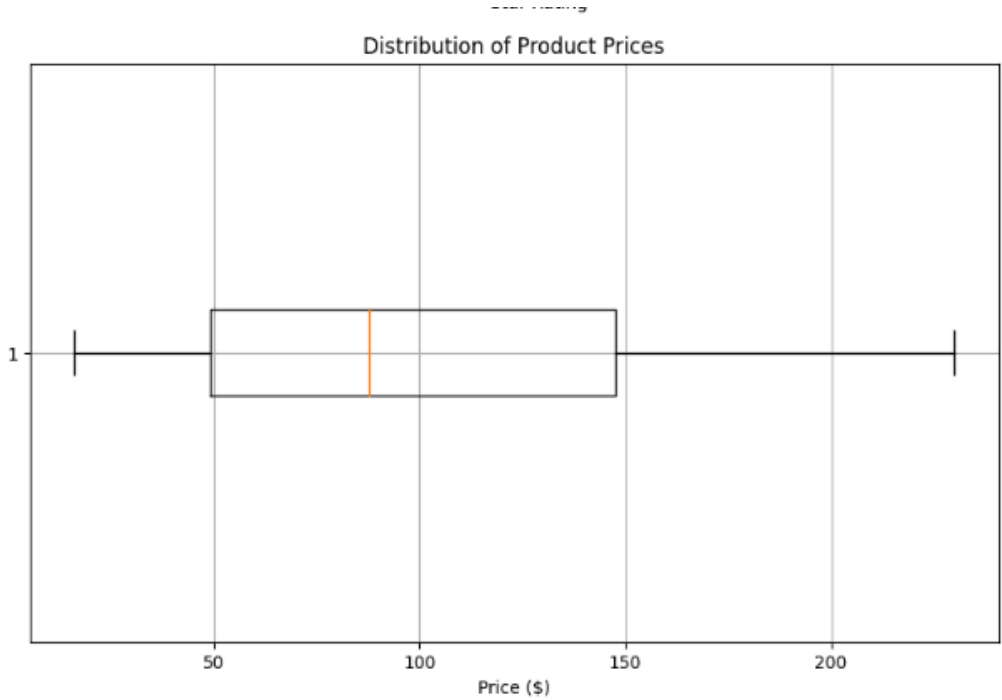
headers = {
    "X-RapidAPI-Key": "f7d5461423msh37c7ea001e56b13p183362j5nc89453efb04e",
    "X-RapidAPI-Host": "real-time-amazon-data.p.rapidapi.com"
}

response = requests.get(url, headers=headers, params=querystring)
print(response.json())
```

```
{'status': 'OK', 'request_id': '7b326f25-bfaf-4361-836c-9c89ae84a383', 'data': {'total_products': 10770, 'country': 'US', 'domain': 'www.amazon.com', 'products': [{'asin': 'B0CSB1GX4H', 'product_title': 'Samsung Galaxy A
```

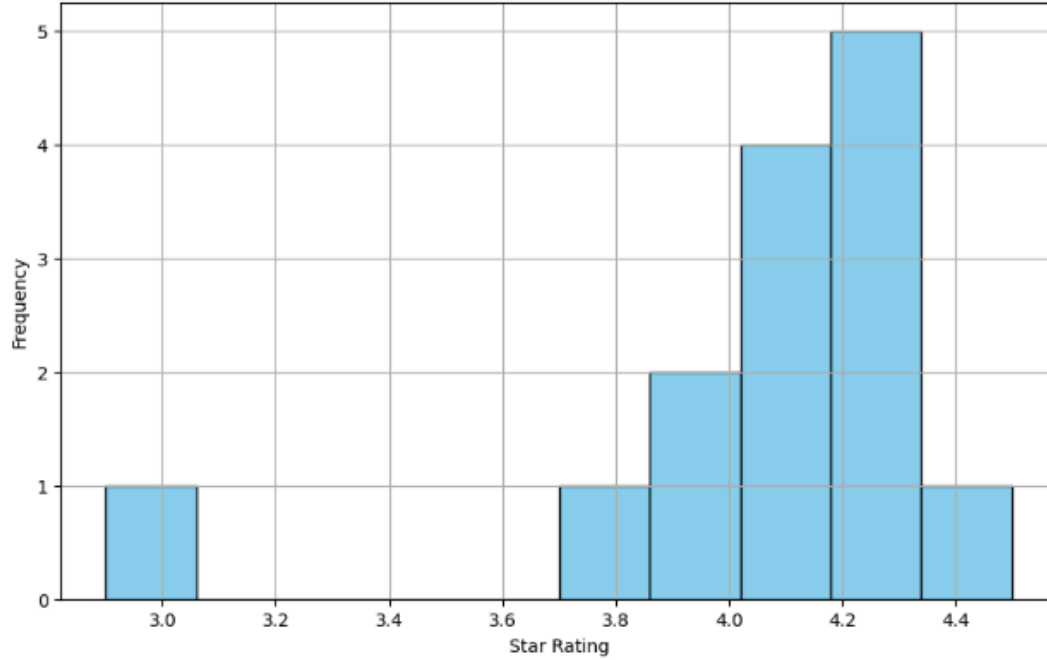
b. To display the data you may use python library Dash or some other library.

Some of the visualizations that I have done



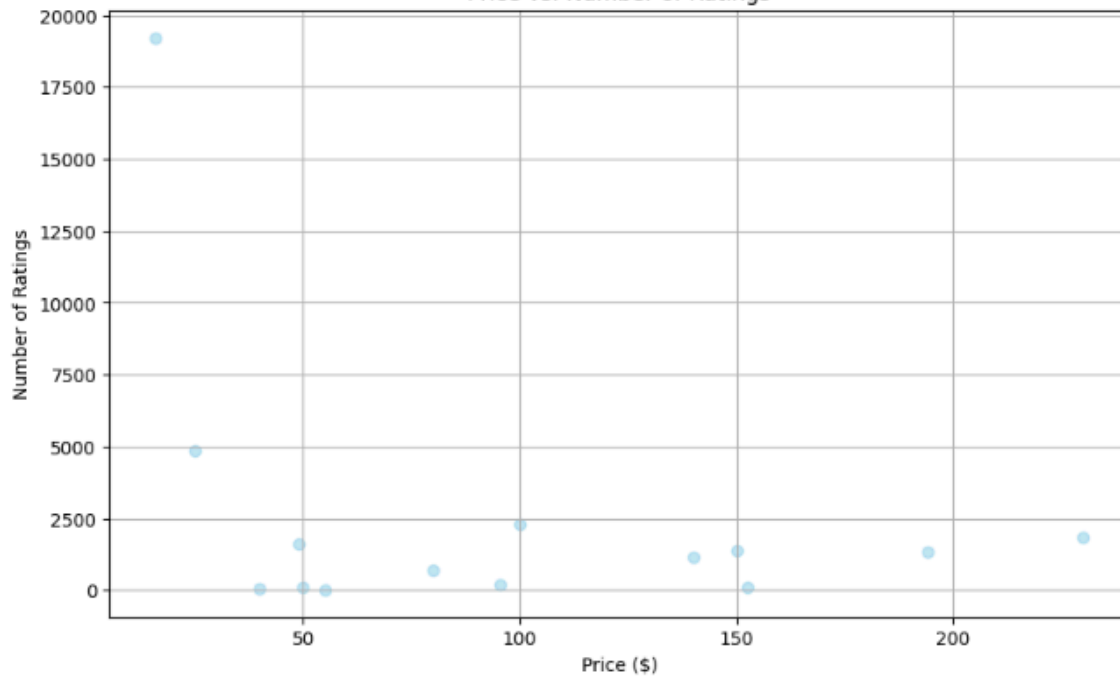


Distribution of Product Ratings



Price (\$)

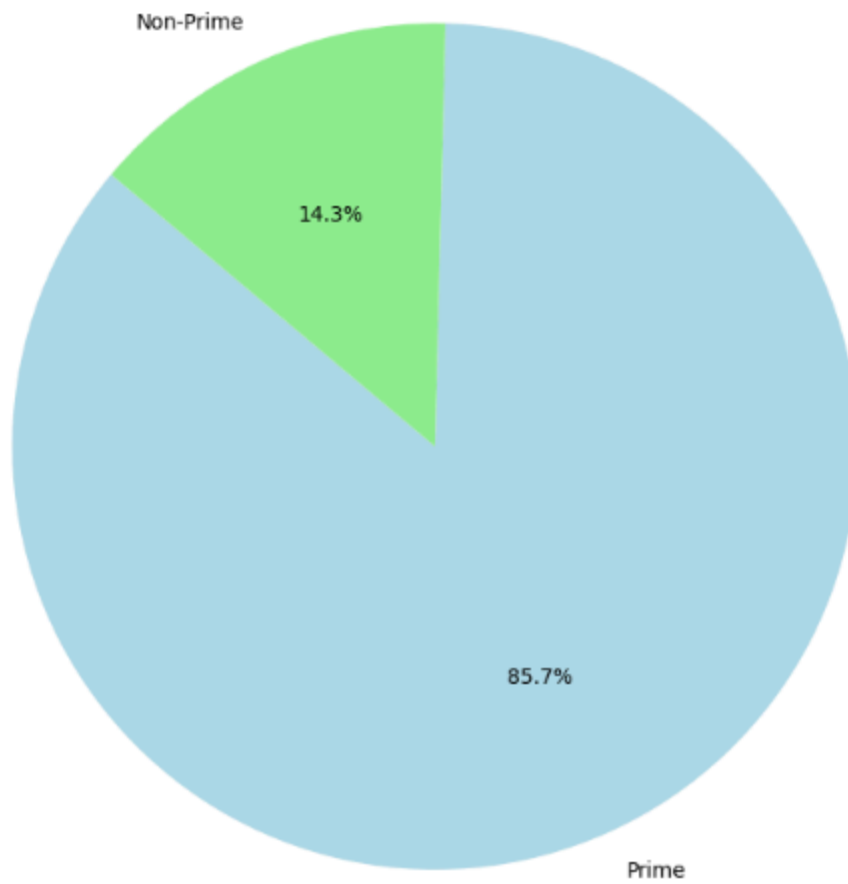
Price vs. Number of Ratings



Proportion of Prime Eligible Products

[18]

Proportion of Prime Eligible Products



Dash board:

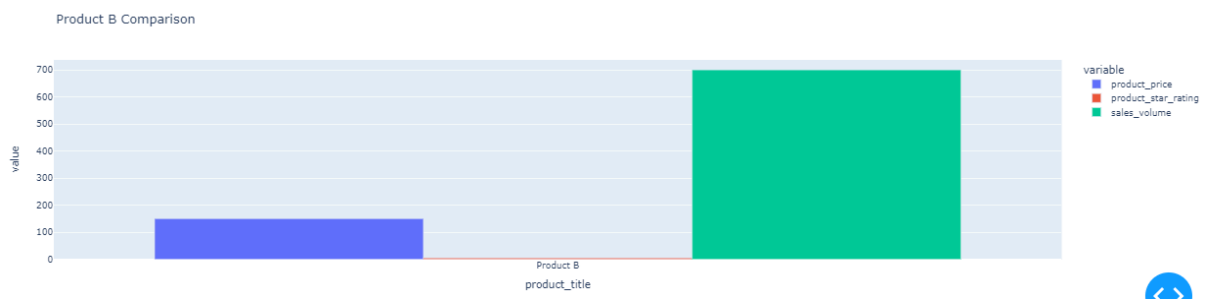


Product Analysis Dashboard



Product Comparison

Product B



Time Series Analysis

- ☐ Product Price
- ☐ Product Star Rating
- ☒ Sales Volume

