

```
from bs4 import BeautifulSoup
import requests
import csv
import pandas as pd

url = "https://www.swiggy.com/restaurants/abhi-restaurant-ayyanar-kovil-st-rajapalayam-413409"
p = requests.get(url)
soup = BeautifulSoup(p.content, 'html.parser')
print(p)
content = soup.find_all('div', class_="_2wg_t")
fheader = ["Food Name","Price"]

itemfull = []

for item in content:
    items = []
    Food_name = item.find('h3', class_="styles_itemNameText__3ZmZZ")
    price = item.find('div', class_="styles_itemPortionContainer__1u_tj")

    if(Food_name is not None):
        items.append(Food_name.text)
    else:
        items.append("Food_name is NA")
    if(price is not None):
        items.append(price.text)
    else:
        items.append("No Original Price")

    itemfull.append(items)

pd.DataFrame(itemfull).to_csv("food.csv",header=fheader)

<Response [200]>

import pandas as pd
data = pd.read_csv('kiran.csv')

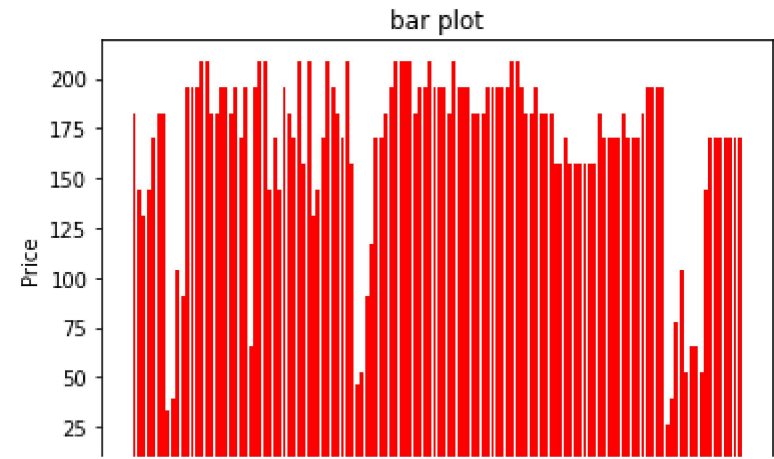
import matplotlib.pyplot as plt
x=data.Food_Name
y=data.Price
plt.bar(x,y,color='red')
plt.title("bar plot")
plt.ylabel("Price")
```

kiran.csv X

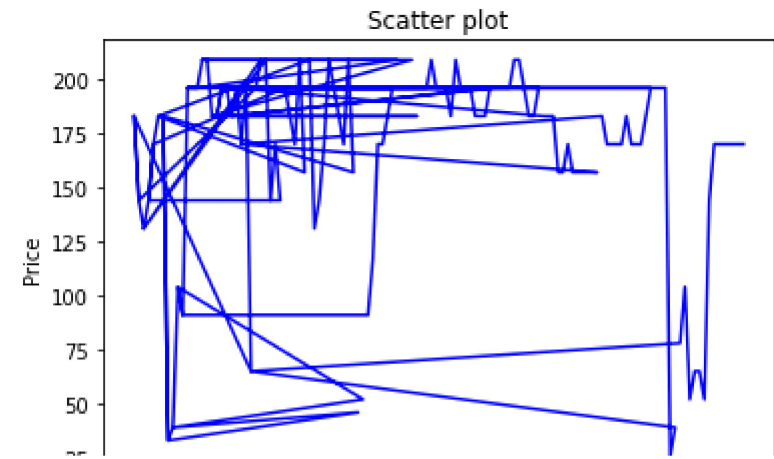
1 to 50 of 151 entries Filter

s.no	Food_Name	Price
0	Chicken Briyani	183
1	Plain Briyani	144
2	Veg Rice	131
3	Egg Fried Rice	144
4	Chicken Fried Rice	170
5	Schezwan Chicken Fried Rice	183
6	Schezwan Chicken Noodles	183
7	Parotta	33
8	Veechu Parotta	39
9	Egg Kothu Parotta	104
10	Chilli Parotta	91
11	Paneer Kathi Roll	196
12	Chicken Kathi Roll	196
13	Chettinad Chicken Gravy	196
14	Kadaai Chicken Gravy	209
15	Butter Chicken Gravy	209
16	Chicken Wings	183
17	Chicken 65	183
18	Andhra Chicken	196
19	Pallipalayam Chicken	196
20	Chickenlollipop	183
21	Paneer Butter Masala	196
22	Paneer65	170
23	Mutton Fry	196
24	Chapathi Set	65
25	Chicken Briyani	183
26	Plain Briyani	144
27	Mutton Briyani	196
28	65 Special Briyani	209
29	Veg Rice	131
30	Mutton Fried Rice	209
31	Jeera Rice	144
32	Mexican Veg Fried Rice	170
33	Ghee Rice	144
34	Egg Fried Rice	144
35	Chicken Fried Rice	170
36	Paneer Fried Rice	196

```
plt.xlabel("Food_Name")
plt.show()
```



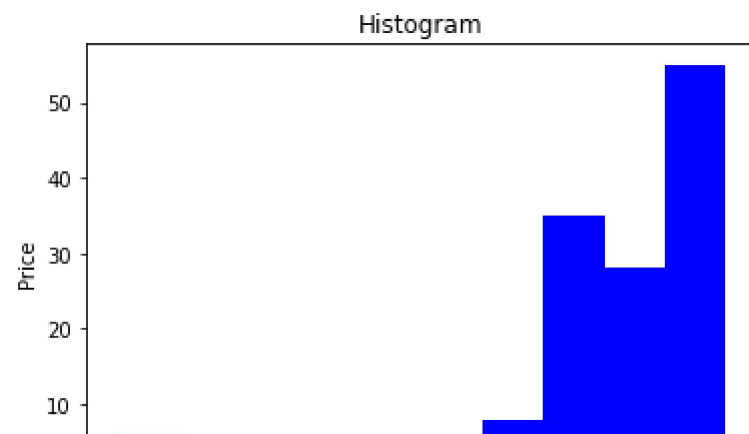
```
#scatter.plot
import matplotlib.pyplot as plt
x=.data.Food_Name
y=.data.Price
plt.plot(x,y,color="blue")
plt.xlabel('Food_Name')
plt.ylabel("Price")
plt.title("Scatter.plot")
plt.show()
```



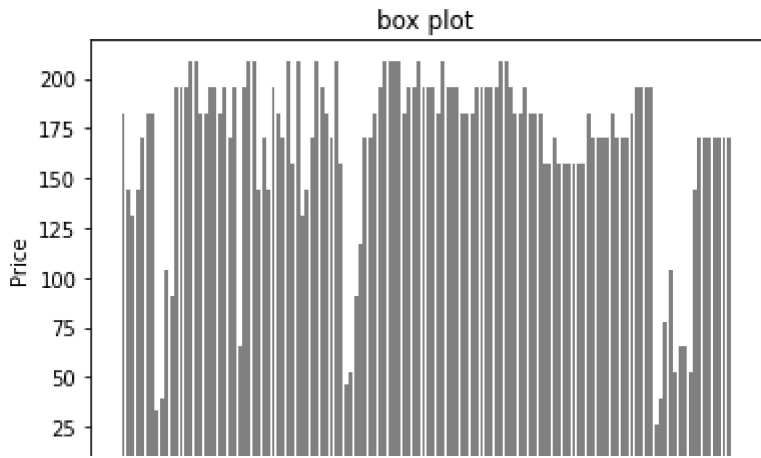
37	Mushroom Fried Rice	183
38	Gobi Fried Rice	170
39	Chilli Chicken Fried Rice	209
40	Schezwan Veg Fried Rice	157
41	Schezwan Chicken Fried Rice	183
42	Mexican Chicken Fried Rice	209
43	Veg Noodles	131
44	Egg Noodles	144
45	Chicken Noodles	170
46	Mutton Noodles	209
47	Panner Noodles	196
48	Mushroom Noodles	183
49	Gobi Noodles	170

```
# Histogram Plot
import matplotlib.pyplot as plt
x = data.Food_Name
y = data.Price
plt.hist(y,color="blue")

plt.ylabel("Price")
plt.title("Histogram")
plt.show()
```



```
#box plot
import matplotlib.pyplot as plt
x=data.Food_Name
y=data.Price
plt.bar(x,y,color='Grey')
plt.title("box plot")
plt.ylabel("Price")
plt.xlabel("Food_Name")
plt.show()
```



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✓ 1s completed at 1:59 PM

● ✕

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x_1	x_2	x_3	x_1x_2	x_2x_3	x_1x_3	x_1^2	x_2^2	x_3^2
20	15	8	300	120	160	400	225	64
15	18	9	270	162	135	225	324	81
16	20	6	320	120	96	256	400	36
21	17	5	357	85	105	441	289	25
20	16	4	320	64	80	400	256	16
18	22	9	396	198	162	324	484	81
21	20	8	420	160	168	441	400	64
20	15	7	300	105	140	400	225	49
Σ SUM			2683	1014	1046	2867	2603	416

$$r_{12} = \frac{\Sigma x_1 x_2}{\sqrt{\Sigma x_1^2 \Sigma x_2^2}} = \frac{2683}{\sqrt{(2867) \times (2603)}} = \frac{2683}{\sqrt{7514861}}$$

$$= \frac{2683}{2741.3247} = 0.9787$$

$$r_{13} = \frac{\Sigma x_1 x_3}{\sqrt{\Sigma x_1^2 \Sigma x_3^2}} = \frac{1046}{\sqrt{(2867) \times (416)}} = \frac{1046}{\sqrt{1200912}}$$

$$r_{23} = \frac{\Sigma x_2 x_3}{\sqrt{\Sigma x_2^2 \Sigma x_3^2}} = \frac{1014}{\sqrt{(2603) \times (416)}} = \frac{1014}{\sqrt{1082848}}$$

$$= \frac{1014}{1040.5998} = 0.9744$$

$$\begin{aligned}
 1) R_{3.12} &\Rightarrow \sqrt{\frac{R_{31}^2 + R_{32}^2 - 2r_{31}r_{32}r_{12}}{1 - r_{12}^2}} = \\
 &= \sqrt{\frac{(0.9645)^2 + (0.9744)^2 - 2(0.9545)(0.9744)(0.9737)}{1 - (0.98787)^2}} = \sqrt{\frac{0.04001}{0.04215}} \\
 &= \sqrt{0.9492} \\
 R_{3.12} &= \sqrt{0.9492} \Rightarrow \boxed{0.9743}
 \end{aligned}$$

$$\begin{aligned}
 (2) R_{31.2} &= \frac{R_{31} - R_{32} \cdot R_{12}}{\sqrt{(1 - R_{32}^2)(1 - R_{12}^2)}} = \frac{0.9545 - (0.9744)(0.9787)}{\sqrt{(1 - 0.9494)(1 - 0.95785)}} \\
 &= \frac{0.0009}{\sqrt{(0.05055)(0.04215)}} = \frac{0.0009}{\sqrt{0.0021}} \\
 &= \frac{0.0009}{0.0458} \\
 R_{31.2} &= \boxed{0.0197}
 \end{aligned}$$

$$\begin{aligned}
 (3) R_{32.1} &= \frac{R_{32} - R_{31} \cdot R_{21}}{\sqrt{(1 - R_{31}^2)(1 - R_{21}^2)}} = \frac{0.9744 - (0.9545)(0.9787)}{\sqrt{(1 - (0.9545)^2)(1 - (0.9787)^2)}} \\
 &= \frac{0.9744 - 0.9342}{\sqrt{(1 - 0.9107)(1 - 0.95785)}} = \frac{0.0402}{\sqrt{(0.0893)(0.04215)}} \\
 &= \frac{0.0402}{\sqrt{0.0037}} = \frac{0.0402}{0.0608} = 0.6612 \\
 R_{32.1} &= \boxed{0.6612}
 \end{aligned}$$