T. Mohamed Nadhim 3122 21 3002 058 3rd Year, ECE -A

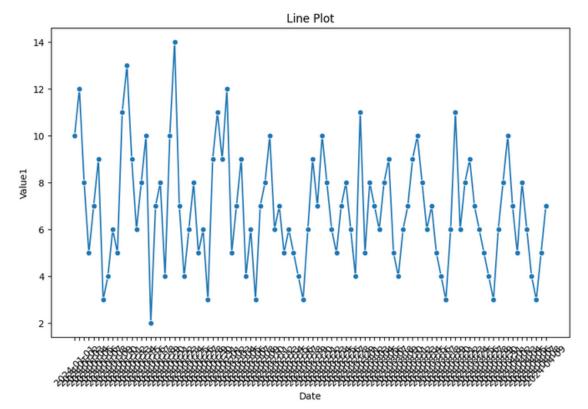
data-visualisation

February 13, 2024

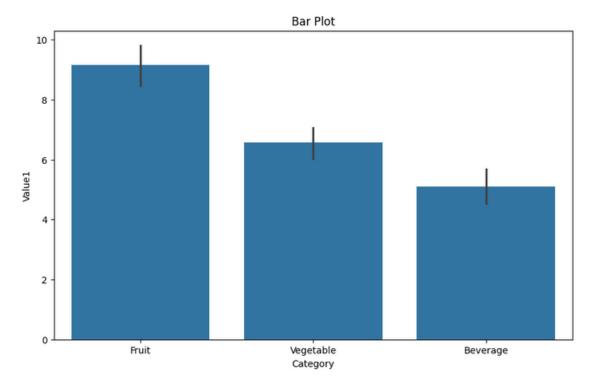
```
[32]: import pandas as pd import matplotlib.pyplot as plt import seaborn as sns
```

[33] df = pd.read_csv('/content/data.csv.txt')

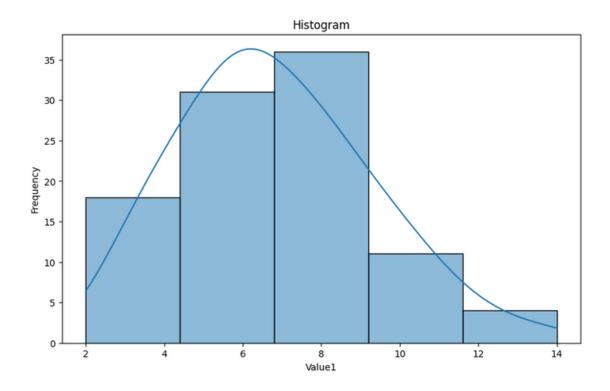
#1. Line Plot



#2. Bar Plot

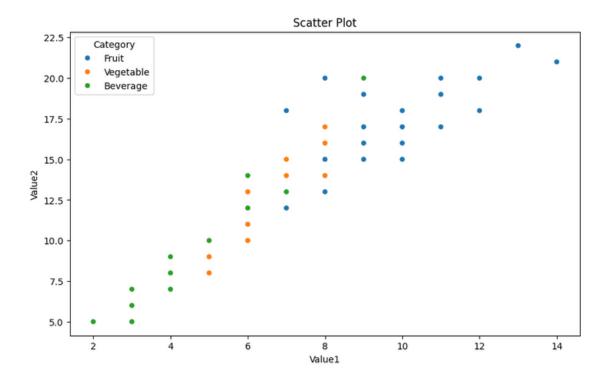


#3. Histogram

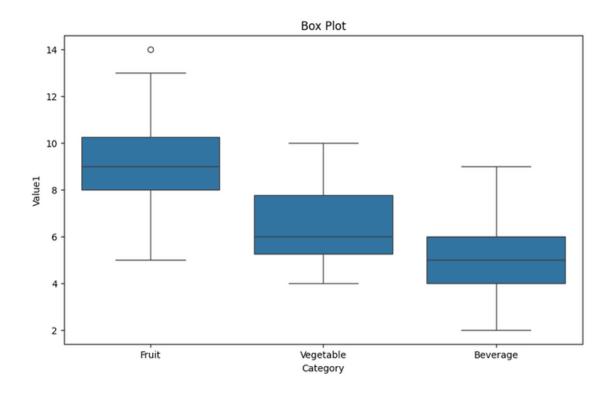


#4. Scatter Plot

```
[37]: plt.figure(figsize=(10, 6))
    sns.scatterplot(x='Value1', y='Value2', data=df, hue='Category')
plt.title('Scatter Plot')
plt.xlabel('Value1')
plt.ylabel('Value2')
plt.show()
```



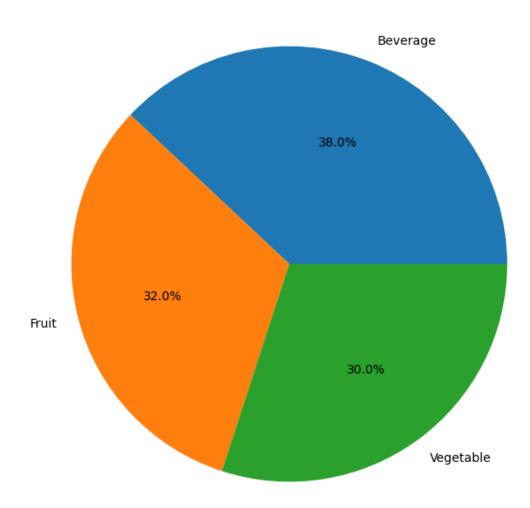
1 5. Box Plot



#6. Pie Chart

```
[39]: plt.figure(figsize=(8, 8))
    df['Category'].value_counts().plot.pie(autopct='%1.1f%%')
plt.title('Pie Chart')
plt.ylabel('')
plt.show()
```

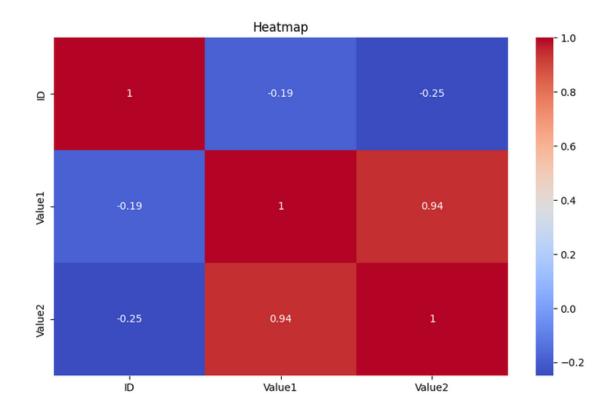
Pie Chart



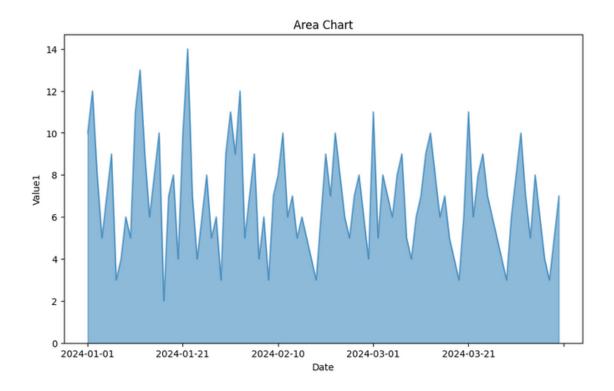
#7. Heat Map

```
[40]: plt.figure(figsize=(10, 6))
sns.heatmap(df.corr(), annot=True, cmap='coolwarm')
plt.title('Heatmap')
plt.show()
```

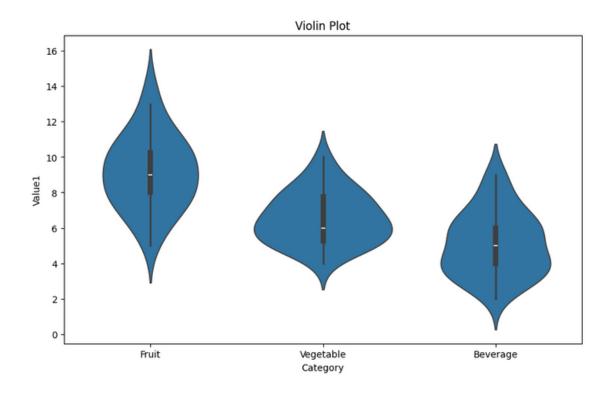
<ipython-input-40-d599dbc66e0e>:2: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning. sns.heatmap(df.corr(), annot=True, cmap='coolwarm')



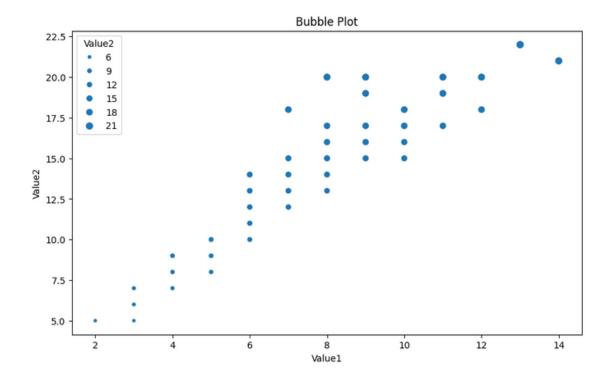
#8. Area Chart



2 9. Violin plot



3 10. Bubble plot



data.csv file link: https://github.com/Nadhim/ML-Lab/blob/main/Experiment_0%20-
<a href="mailto:weather-width-weath-weather-

Data Visualisation Project Link: https://github.com/Nadhim/ML-Lab/tree/main/Experiment_0%20-
%20Data%20Visualisation