

week2

January 30, 2024

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1.1 CSE - P

1.2 AP21110011026

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

```
[3]: iris = pd.read_csv(r"C:\Users\tiwar\Downloads\archive (1)\BBCA.JK_monthly new.
↪csv")
```

```
[5]: print("Monthly Financial_Data")
print(iris.head())
```

Monthly Financial_Data

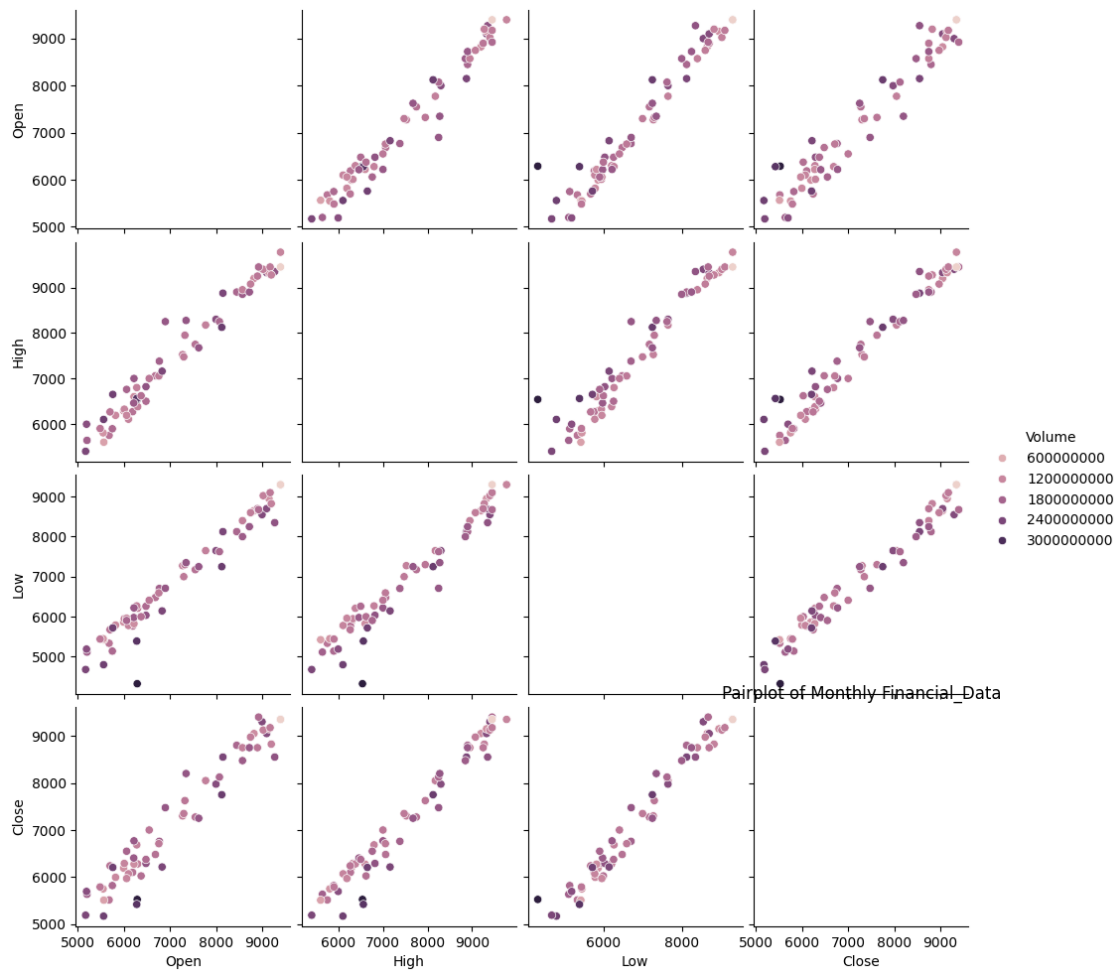
	Date	Open	High	Low	Close	Adj Close	Volume
0	2018-12-31	5200.0	5640.0	5115.0	5635.0	513.277.392.578.125	1859122000
1	2019-01-31	5680.0	5750.0	5335.0	5515.0	502.346.923.828.125	1493339500
2	2019-02-28	5565.0	5600.0	5425.0	5510.0	50.189.140.625	790477000
3	2019-03-31	5550.0	5805.0	5450.0	5750.0	523.752.392.578.125	989206000
4	2019-04-30	5750.0	5895.0	5140.0	5820.0	534.974.609.375	1700900500

```
[6]: print("\nSummary Statistics of Monthly Financial_Data:")
print(iris.describe())
```

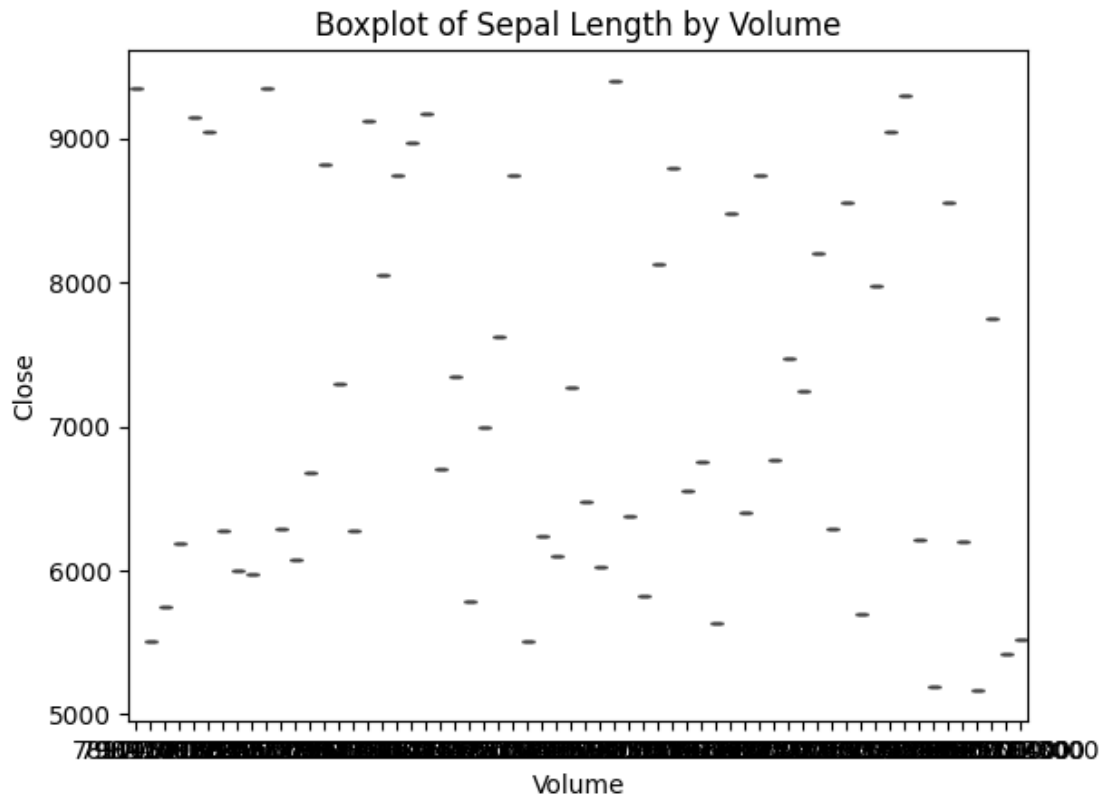
Summary Statistics of Monthly Financial_Data:

	Open	High	Low	Close	Volume
count	62.000000	62.000000	62.000000	62.000000	6.200000e+01
mean	7152.903226	7500.241935	6866.048387	7204.032258	1.683321e+09
std	1336.251040	1322.701975	1362.125610	1337.754676	5.524159e+08
min	5170.000000	5400.000000	4325.000000	5170.000000	7.897730e+07
25%	6070.000000	6338.750000	5798.750000	6122.500000	1.299443e+09
50%	6765.000000	7110.000000	6537.500000	6765.000000	1.548008e+09
75%	8543.750000	8893.750000	8125.000000	8550.000000	2.036029e+09
max	9400.000000	9775.000000	9300.000000	9400.000000	3.403123e+09

```
[9]: sns.pairplot(iris, hue='Volume')
plt.title('Pairplot of Monthly Financial_Data')
plt.show()
```



```
[11]: sns.boxplot(x='Volume', y='Close', data=iris)
plt.title('Boxplot of Sepal Length by Volume')
plt.show()
```



```
[13]: titanic = pd.read_csv(r"C:\Users\tiwar\Downloads\archive (1)\BBCA.JK_weekly_
      ↪new.csv")
```

```
[14]: print("\nWeekly Financial_Data")
      print(titanic.head())
```

Weekly Financial_Data

	Date	Open	High	Low	Close	Adj Close	Volume
0	2018-12-31	5200.0	5325.0	5115.0	5245.0	4.777.533.203.125	233217000
1	2019-01-07	5230.0	5320.0	5150.0	5200.0	473.654.345.703.125	437807000
2	2019-01-14	5230.0	5600.0	5190.0	5545.0	505.079.443.359.375	462381000
3	2019-01-21	5600.0	5620.0	5355.0	5495.0	500.525.146.484.375	435848500
4	2019-01-28	5445.0	5750.0	5440.0	5500.0	500.980.517.578.125	461434500

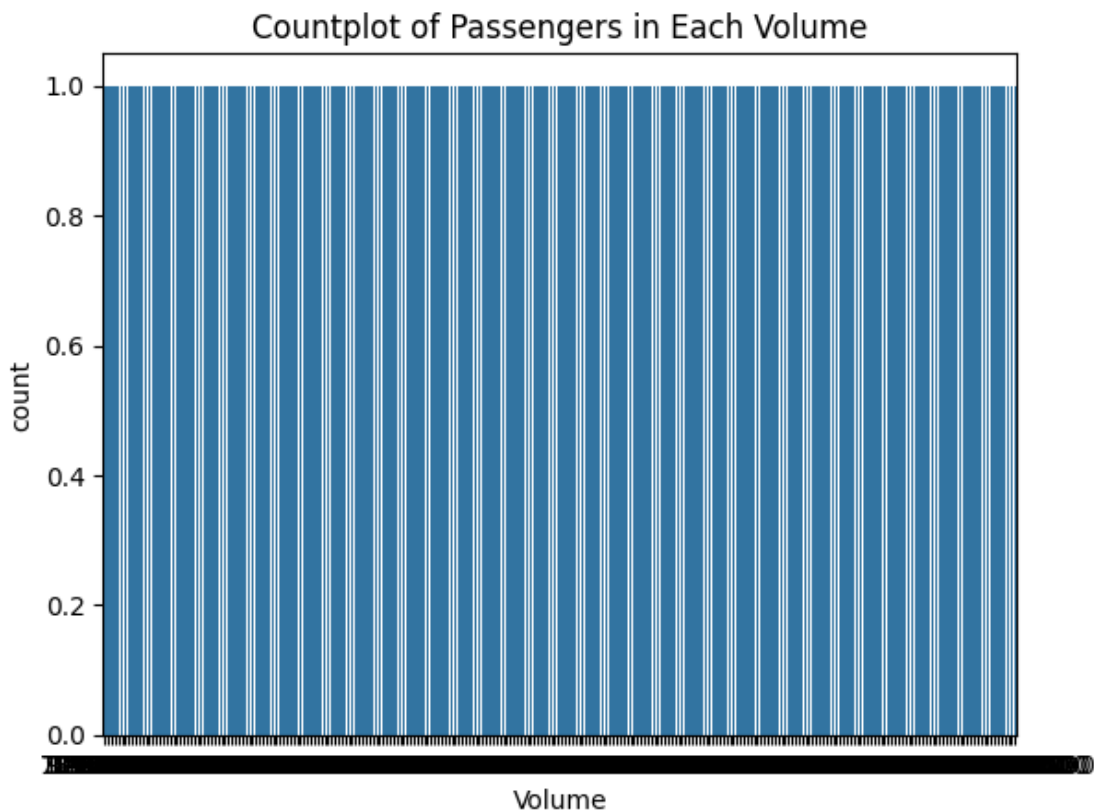
```
[15]: print("\nSummary Statistics of Weekly Financial_Data:")
      print(titanic.describe())
```

Summary Statistics of Weekly Financial_Data:

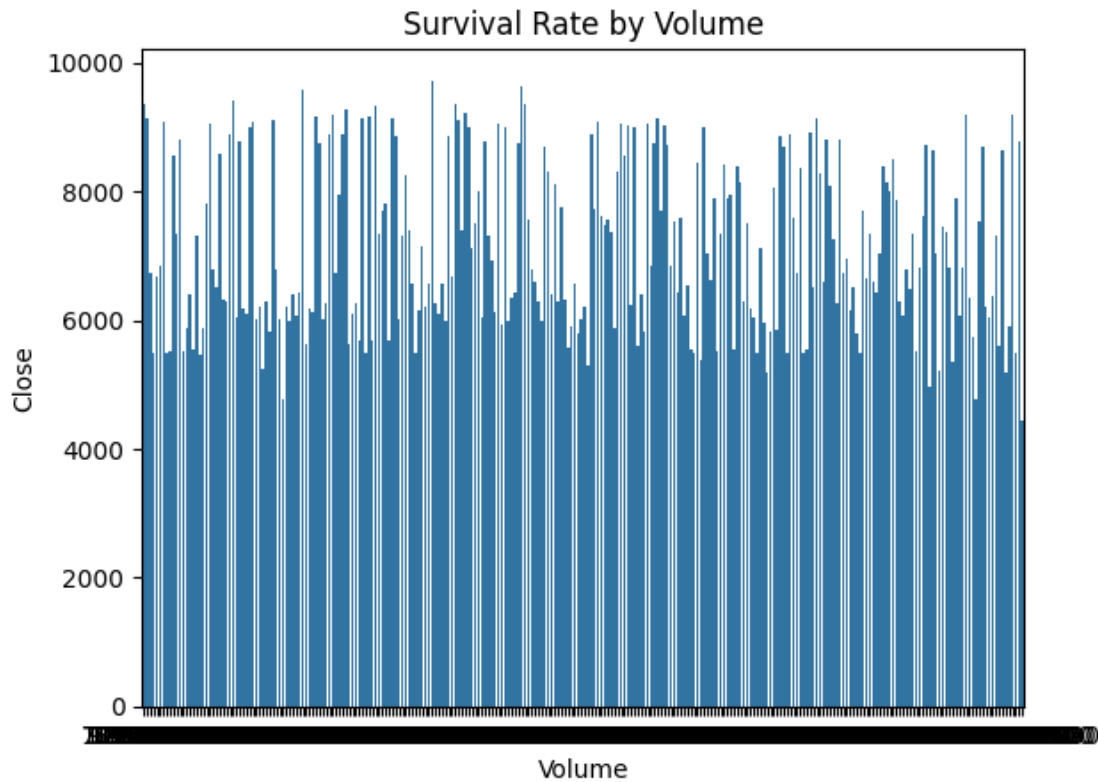
	Open	High	Low	Close	Volume
count	266.000000	266.000000	266.000000	266.000000	2.660000e+02

mean	7136.071429	7293.853383	7004.436090	7151.428571	3.923531e+08
std	1298.477003	1293.111248	1306.385645	1307.604474	1.733313e+08
min	4450.000000	4960.000000	4325.000000	4430.000000	7.897730e+07
25%	6050.000000	6210.000000	5980.000000	6070.000000	2.871146e+08
50%	6825.000000	6980.000000	6677.500000	6820.000000	3.642262e+08
75%	8375.000000	8618.750000	8218.750000	8418.750000	4.614306e+08
max	9700.000000	9775.000000	9550.000000	9725.000000	1.209648e+09

```
[20]: sns.countplot(x='Volume', data=titanic)
plt.title('Countplot of Passengers in Each Volume')
plt.show()
```



```
[19]: sns.barplot(x='Volume', y='Close', data=titanic)
plt.title('Survival Rate by Volume')
plt.show()
```



```
[25]: numeric_columns = titanic.select_dtypes(include=[np.number]).columns  
correlation_matrix = titanic[numeric_columns].corr()
```

```
[27]: sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', linewidths=0.5)  
plt.title('Correlation Heatmap of Financial_Data')  
plt.show()
```

