

## project2-1

July 31, 2024

```
[10]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
data = pd.read_csv('ice.csv')
df = data.drop(['Date'],axis=1)
print(df)
print()
print()
print("*****mean at row_wise*****")
mean=df.mean(axis=1)
print(mean)
print()
print()
print("*****mean at coloum_wise*****")
print(df.mean())
print()
print()
print("*****median at row_wise*****")
print(df.median(axis=1))
print()
print()
print("*****median at coloum_wise*****")
print(df.median())
print()
print()
print("*****mode*****")
print(df.mode())
print()
print()
print("*****Coefficient Corelation*****")
print(df.corr())
## Coefficient Corelation Graph
sns.regplot(x=df.Flavor_Rating,y=df.Texture_Rating)
plt.show()
print()
print()
```

```

df.plot.hist(bins=20)
df.plot.scatter(x = 'Texture_Rating', y = 'Overall_Rating', s = 500, c =_
↳'yellow')
df.plot(kind = 'line', title = 'Ice Cream Ratings', xlabel = 'Daily Ratings',_
↳ylabel = 'Scores')
df.plot.pie(y='Flavor_Rating',figsize=(10,10))
df.plot.area(figsize = (10,5))

```

	Flavor_Rating	Texture_Rating	Overall_Rating
0	0.223090	0.040220	0.600129
1	0.635886	0.938476	0.106264
2	0.442323	0.044154	0.598112
3	0.389128	0.549676	0.489353
4	0.386887	0.519439	0.988280
5	0.877984	0.193588	0.832827
6	0.140995	0.325110	0.105147

\*\*\*\*\*mean at row\_wise\*\*\*\*\*

```

0    0.287813
1    0.560208
2    0.361530
3    0.476052
4    0.631535
5    0.634799
6    0.190418
dtype: float64

```

\*\*\*\*\*mean at coloum\_wise\*\*\*\*\*

```

Flavor_Rating    0.442328
Texture_Rating    0.372952
Overall_Rating    0.531445
dtype: float64

```

\*\*\*\*\*median at row\_wise\*\*\*\*\*

```

0    0.223090
1    0.635886
2    0.442323
3    0.489353
4    0.519439
5    0.832827
6    0.140995
dtype: float64

```

\*\*\*\*\*median at coloum\_wise\*\*\*\*\*

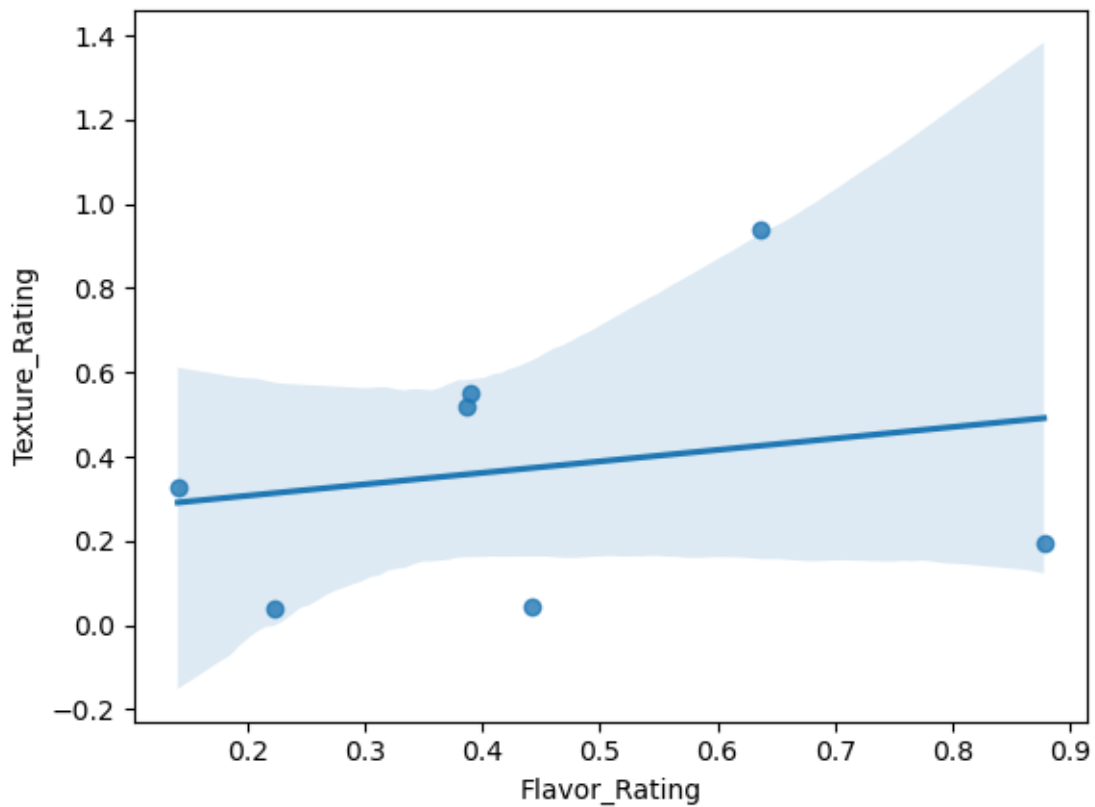
```
Flavor_Rating    0.389128
Texture_Rating    0.325110
Overall_Rating    0.598112
dtype: float64
```

\*\*\*\*\*mode\*\*\*\*\*

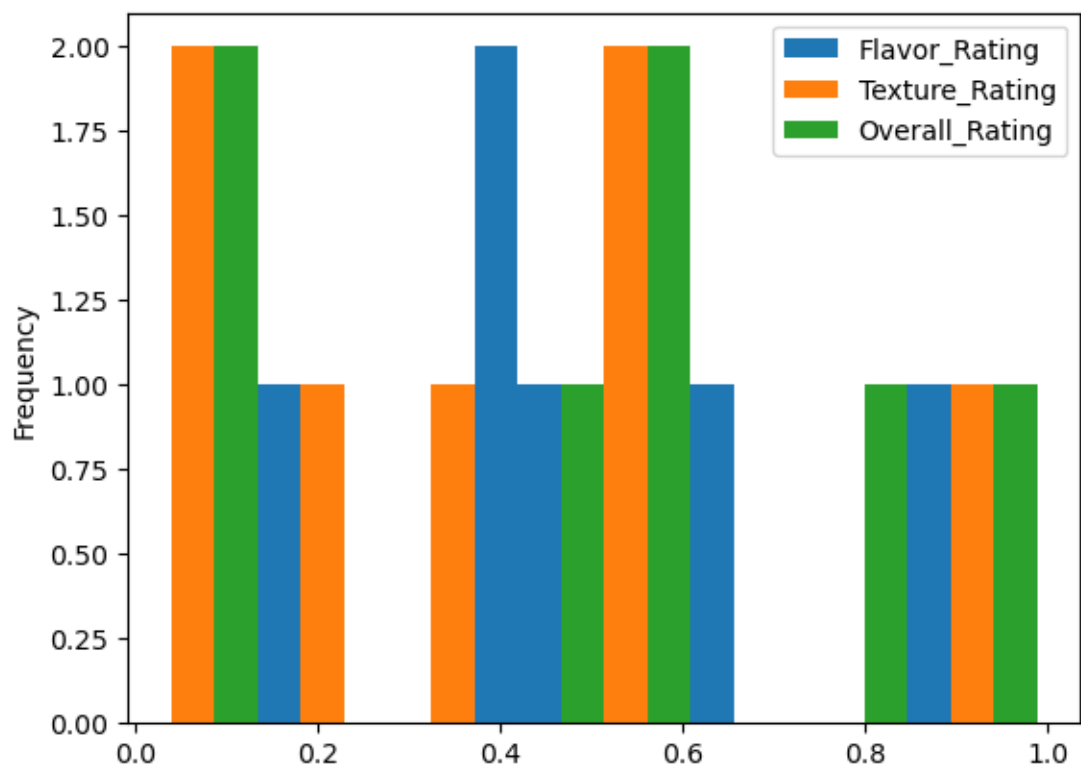
	Flavor_Rating	Texture_Rating	Overall_Rating
0	0.140995	0.040220	0.105147
1	0.223090	0.044154	0.106264
2	0.386887	0.193588	0.489353
3	0.389128	0.325110	0.598112
4	0.442323	0.519439	0.600129
5	0.635886	0.549676	0.832827
6	0.877984	0.938476	0.988280

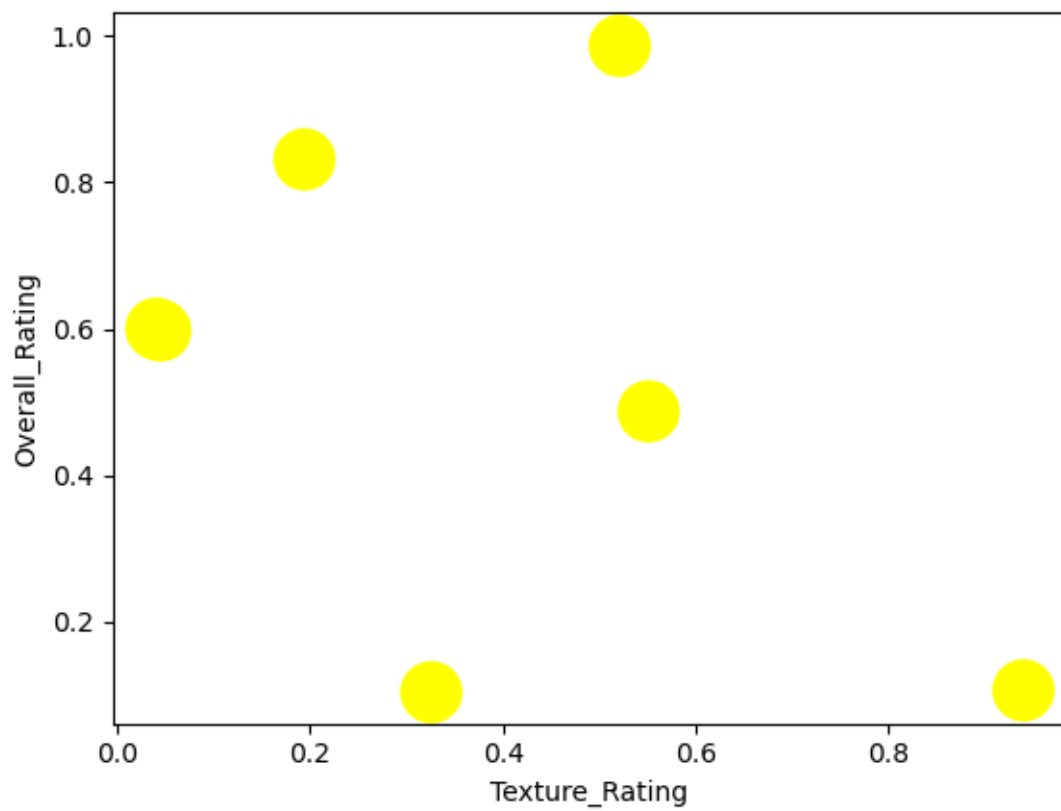
\*\*\*\*\*Coefficient Corelation\*\*\*\*\*

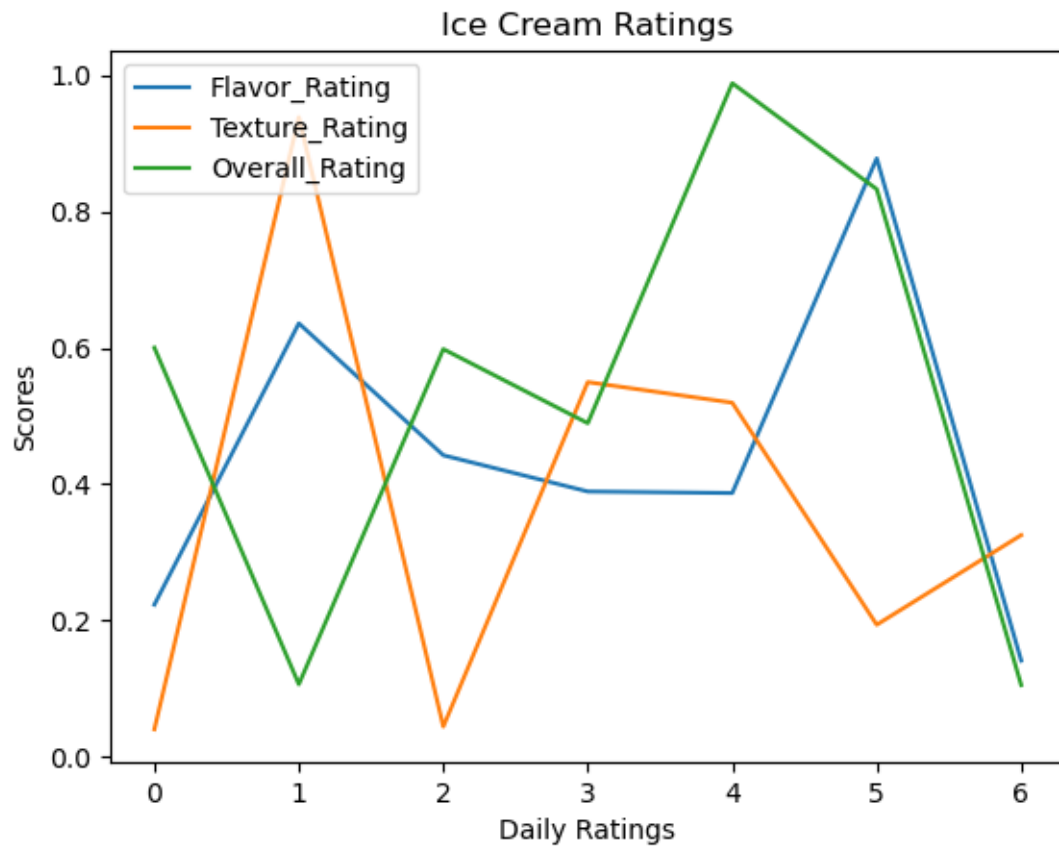
	Flavor_Rating	Texture_Rating	Overall_Rating
Flavor_Rating	1.000000	0.209661	0.278421
Texture_Rating	0.209661	1.000000	-0.399729
Overall_Rating	0.278421	-0.399729	1.000000

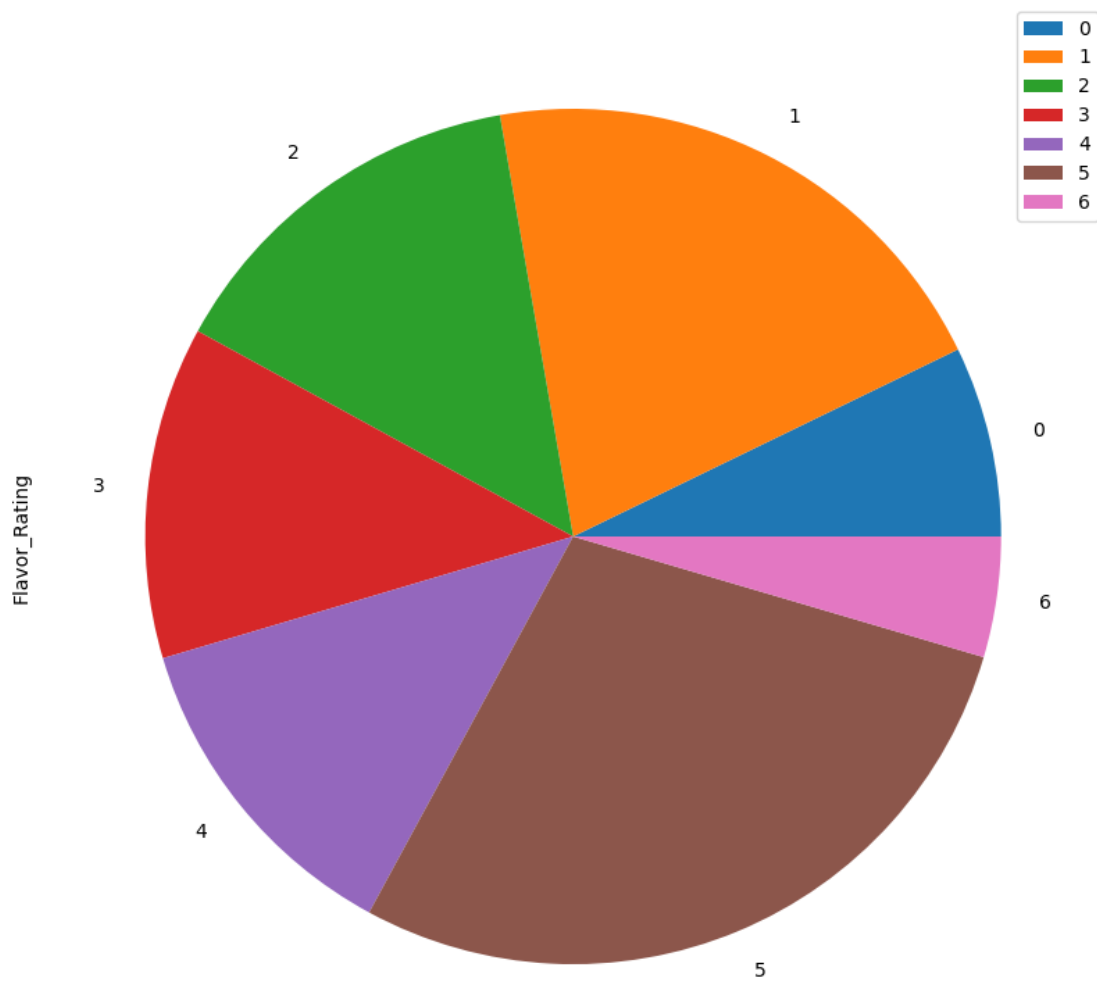


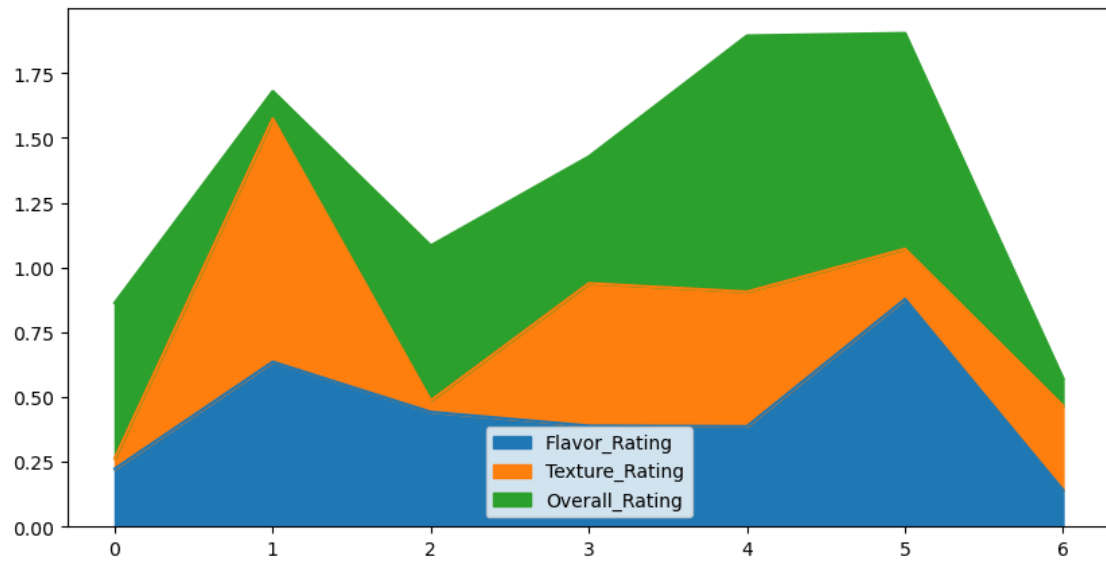
[10]: <Axes: >











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