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BATCH: E4

assignment5-eds

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**import pandas as pd**

**import matplotlib.pyplot as plt**

*# Read the CSV file into a pandas DataFrame*

data = pd.read\_csv('/content/coffee.csv')

*# . Bar Chart - Number of bags for each country of origin*

country\_bags = data.groupby('Country of Origin')['Number of Bags'].sum() plt.bar(country\_bags.index, country\_bags.values)

plt.xlabel('Country of Origin') plt.ylabel('Number of Bags')

plt.title('Number of Bags for each Country of Origin') plt.xticks(rotation=45)

plt.show()

*# . Line Chart - Change in aroma rating over the dataset*

plt.plot(data['Aroma']) plt.xlabel('Data Point') plt.ylabel('Aroma Rating')

plt.title('Change in Aroma Rating over the Dataset') plt.show()

*# . Scatter Plot - Relationship between flavor and acidity ratings*

plt.scatter(data['Flavor'], data['Acidity']) plt.xlabel('Flavor Rating') plt.ylabel('Acidity Rating')

plt.title('Relationship between Flavor and Acidity Ratings') plt.show()

*# . Histogram - Distribution of aftertaste ratings* plt.hist(data['Aftertaste'], bins=10) plt.xlabel('Aftertaste Rating') plt.ylabel('Frequency')

plt.title('Distribution of Aftertaste Ratings') plt.show()

*# . Stacked Bar Chart - Sweetness and moisture percentage for each country of*␣

↪*origin*

sweetness = data.groupby('Country of Origin')['Sweetness'].sum()

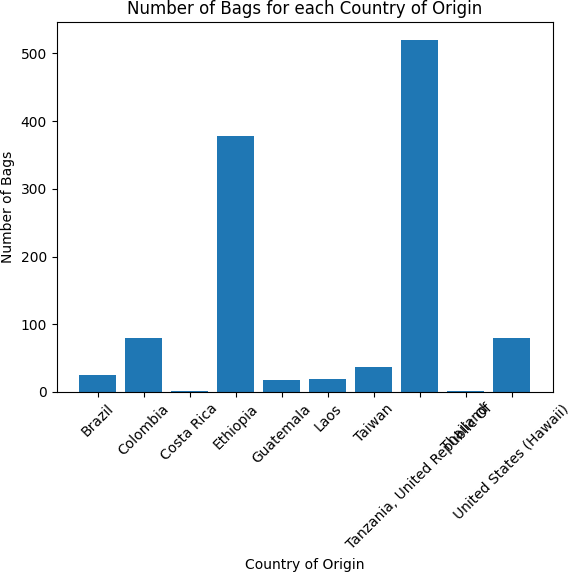
moisture = data.groupby('Country of Origin')['Moisture Percentage'].sum() plt.bar(sweetness.index, sweetness.values, label='Sweetness') plt.bar(moisture.index, moisture.values, bottom=sweetness.values,␣

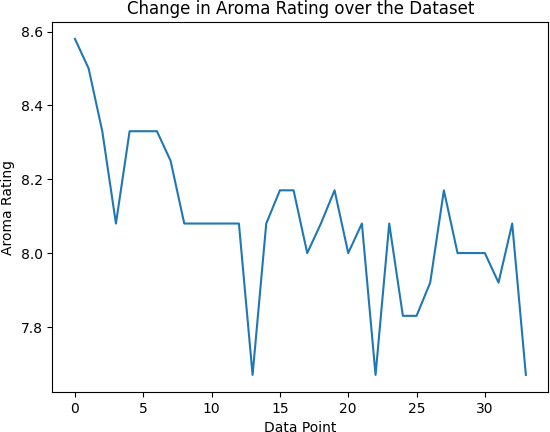
↪label='Moisture Percentage')

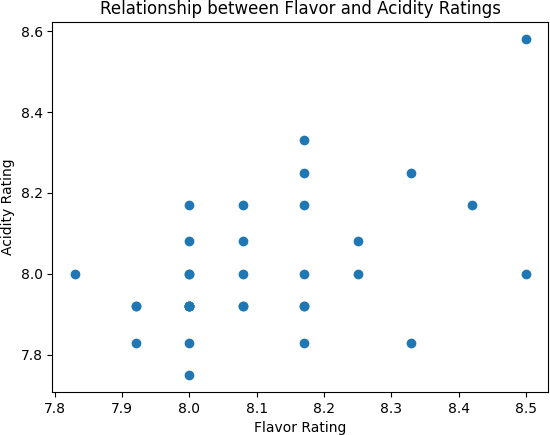
plt.xlabel('Country of Origin') plt.ylabel('Value')

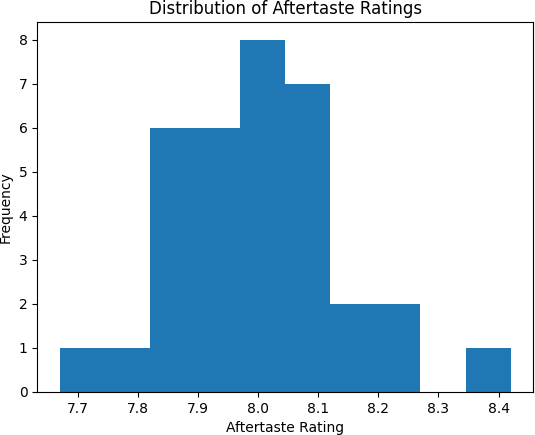
plt.title('Sweetness and Moisture Percentage for each Country of Origin') plt.xticks(rotation=45)

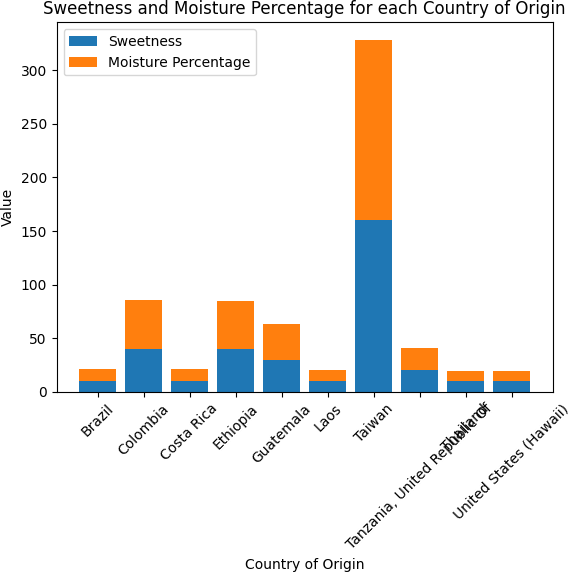
plt.legend() plt.show()











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