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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()

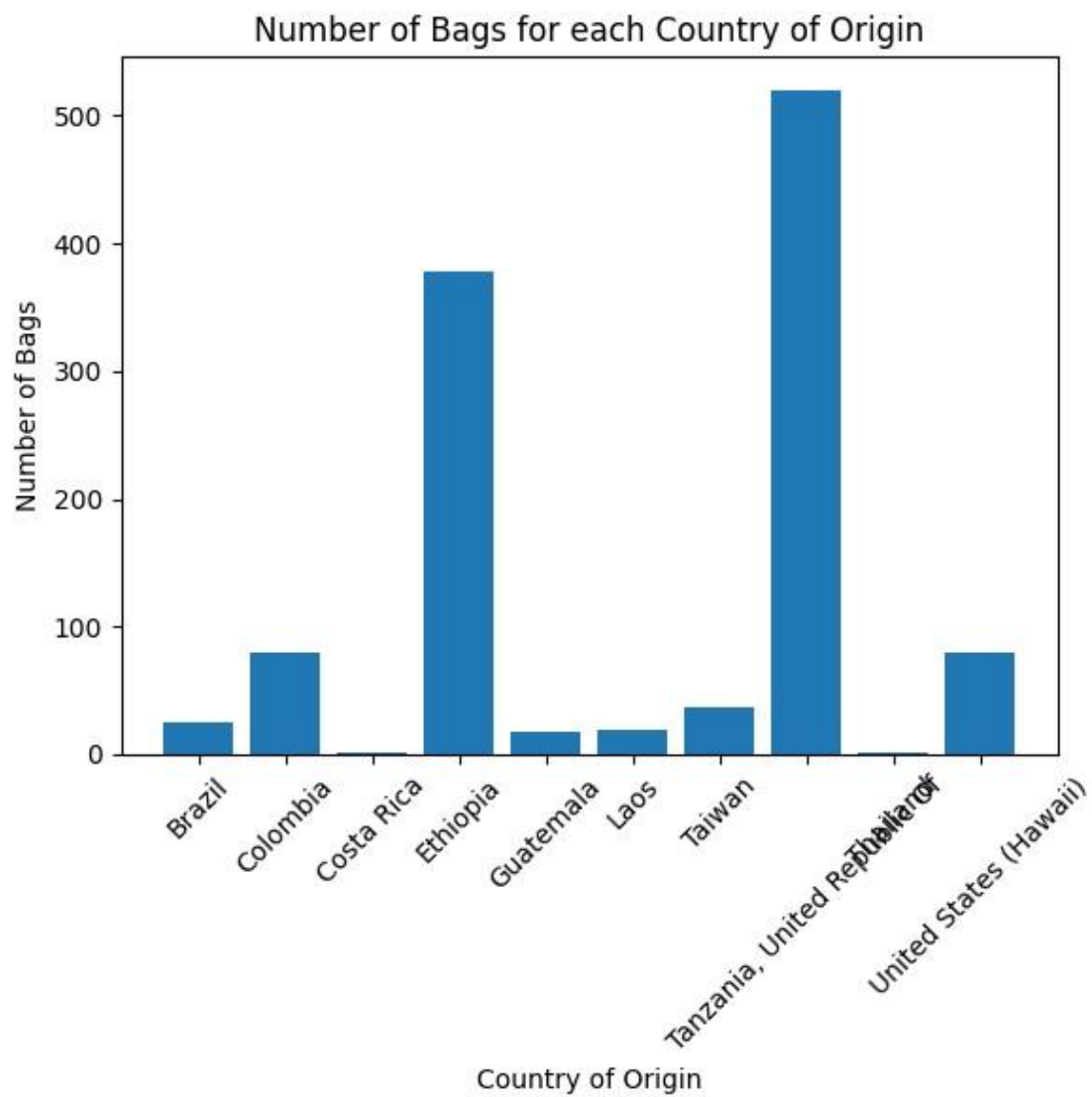
# . Scatter Plot - Relationship between flavor and acidity ratings
plt.scatter(data['Flavor'], data['Acidity'])
plt.xlabel('Flavor Rating')
plt.ylabel('Acidity Rating')
plt.title('Relationship between Flavor and Acidity Ratings ')
plt.show()

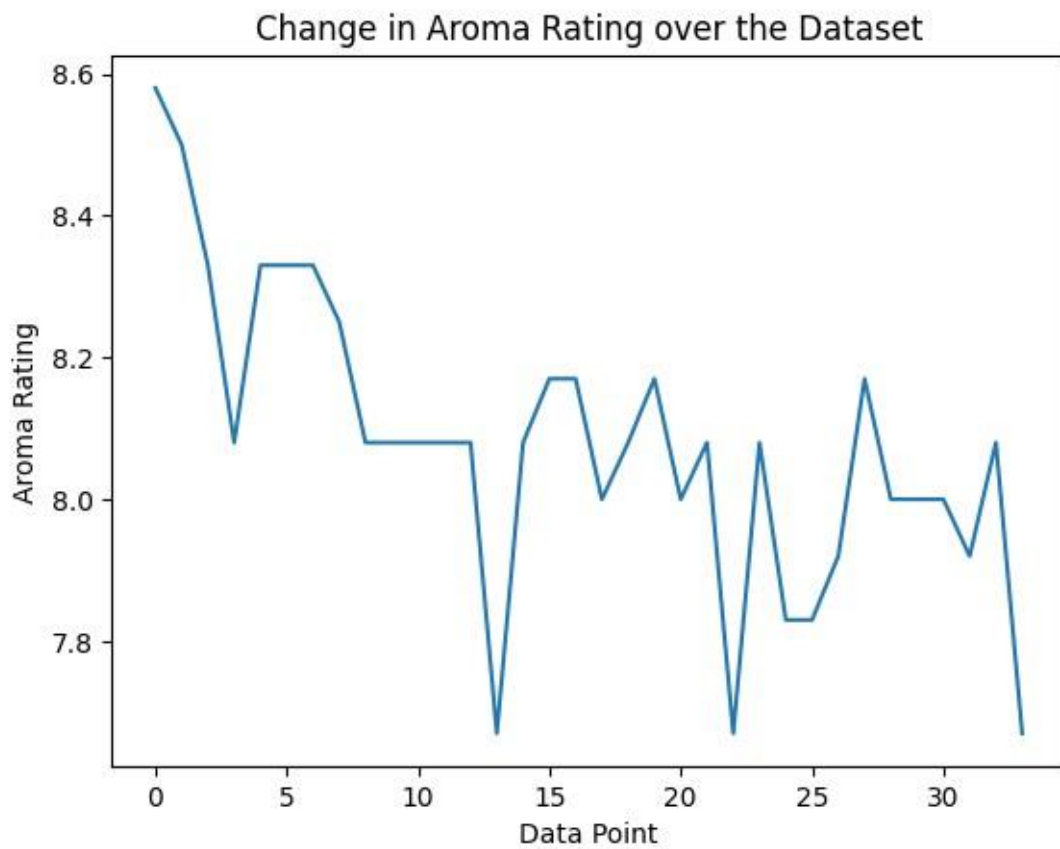
# . Histogram - Distribution of aftertaste ratings
plt.hist(data['Aftertaste'], bins=10)
plt.xlabel('Aftertaste Rating')
plt.ylabel('Frequency')
plt.title('Distribution of Aftertaste Ratings ')
plt.show()
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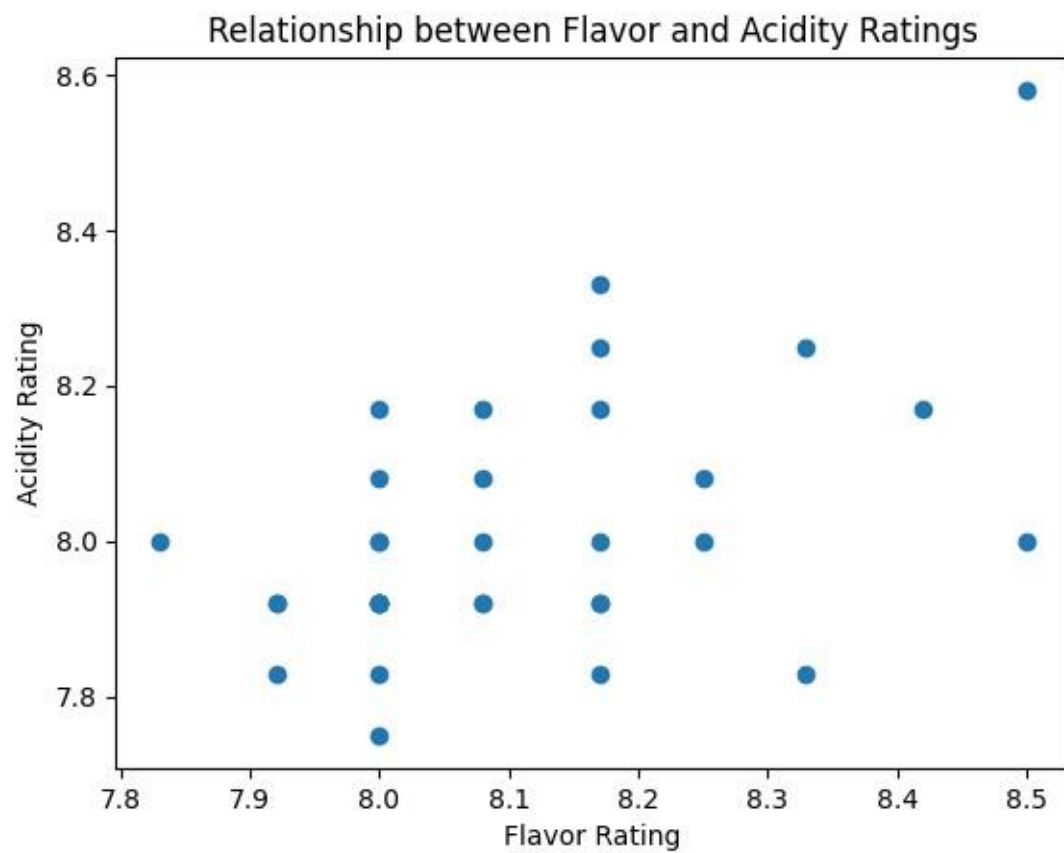
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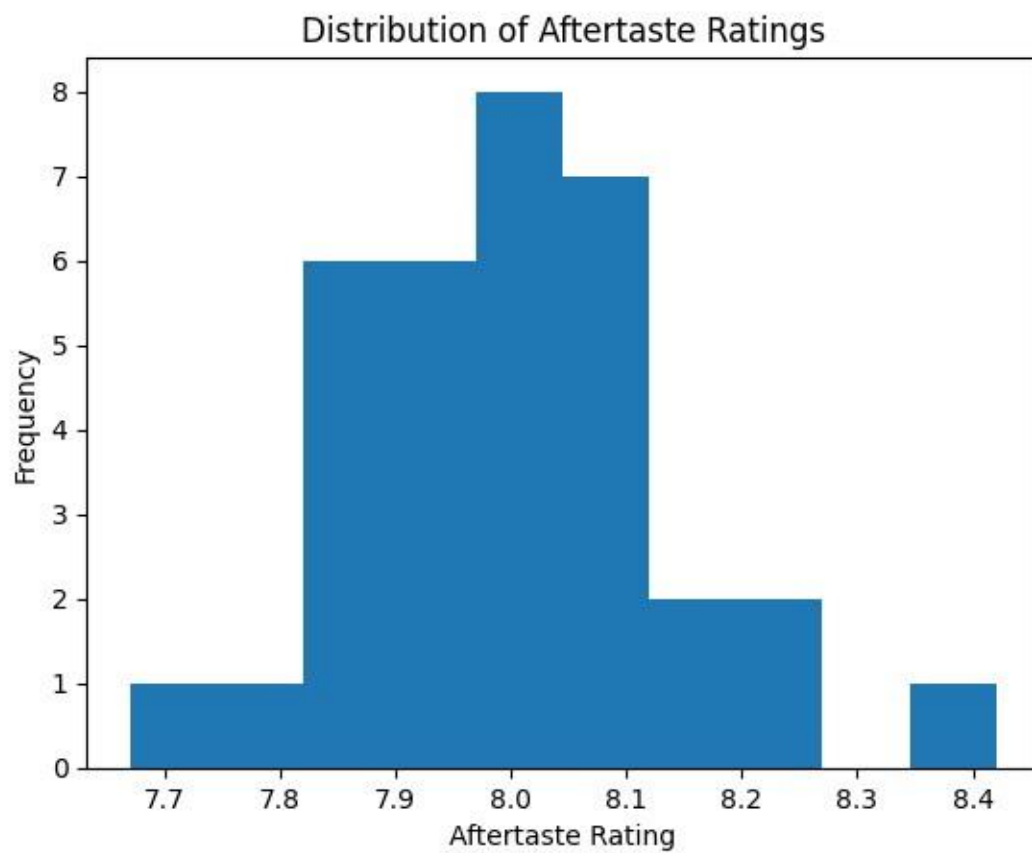
# . Stacked Bar Chart - Sweetness and moisture percentage for each
country of
    ↪origin sweetness = data.groupby('Country of
Origin')['Sweetness'].sum() moisture = data.groupby('Country of
Origin')['Moisture Percentage'].sum() plt.bar(sweetness.index,
sweetness.values, label='Sweetness') plt.bar(moisture.index,
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()

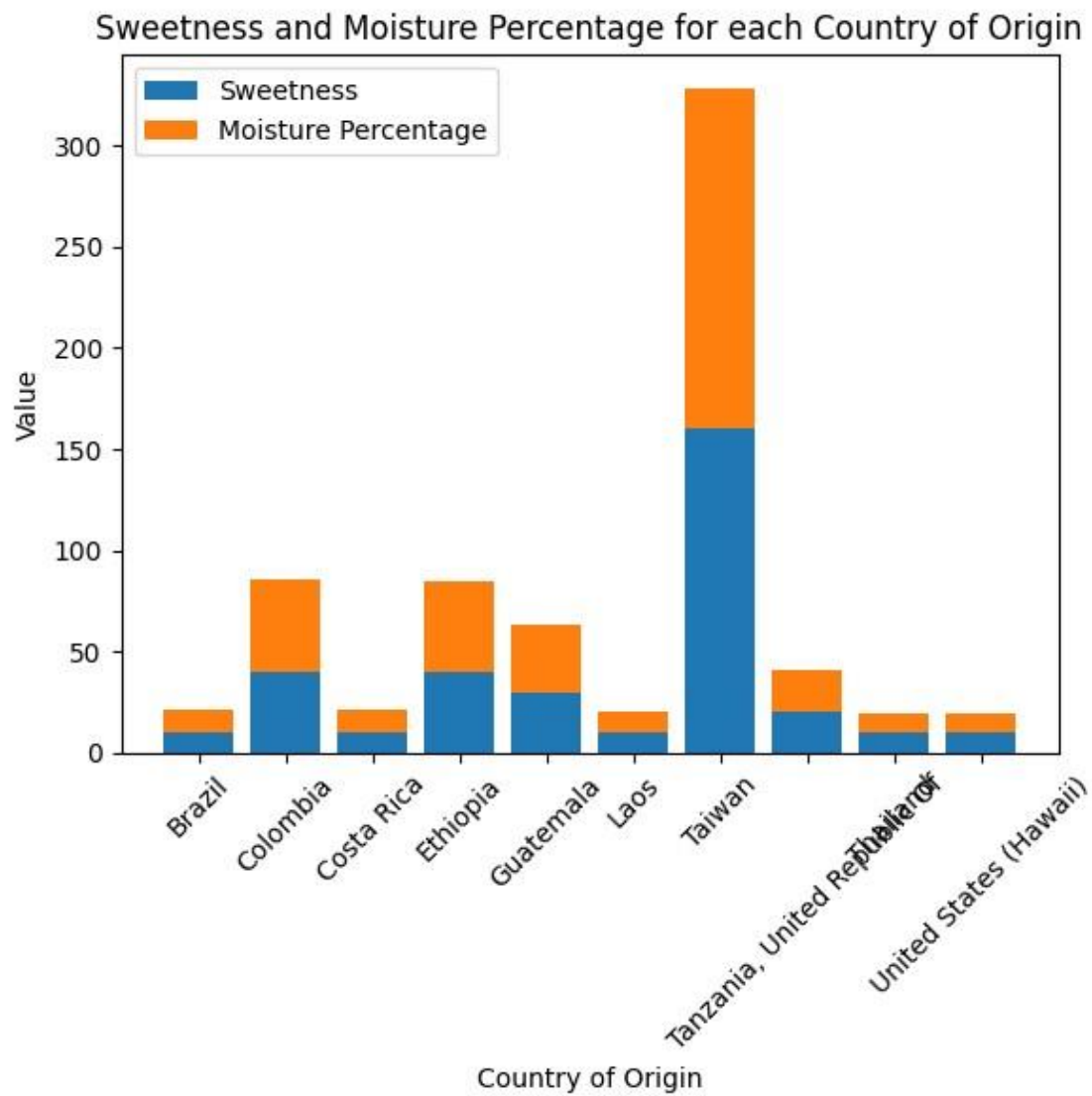
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