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Division D Batch D1

EDS Assignment 5

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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')

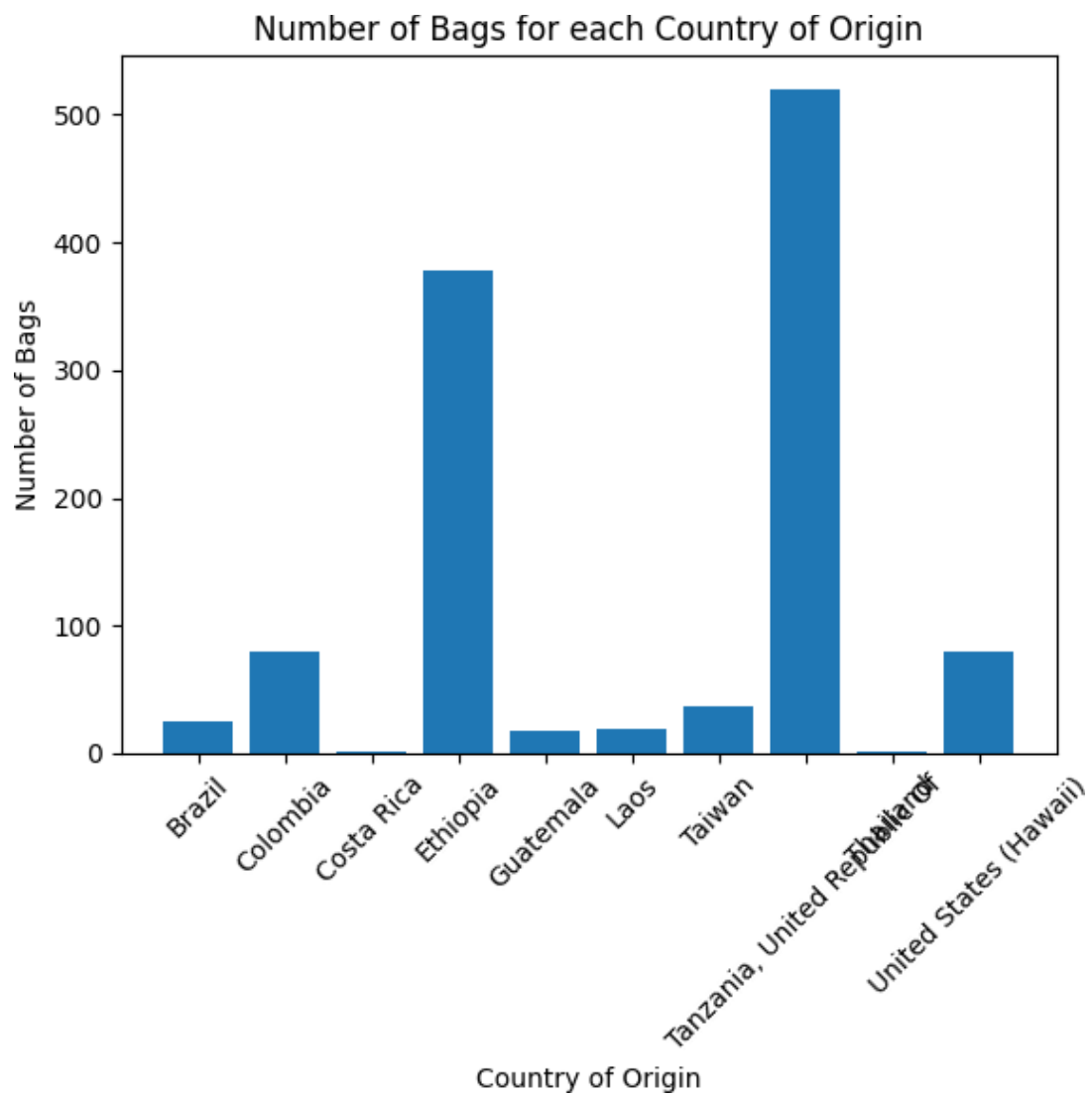
# . Bar Chart - Number of bags for each country of origin
country_bags = data.groupby("Country of Origin")["Number of Bags"].sum()
plt.bar(country_bags.index, country_bags.values)
plt.xlabel("Country of Origin")
plt.ylabel("Number of Bags")
plt.title("Number of Bags for each Country of Origin")
plt.xticks(rotation=45)
plt.show()

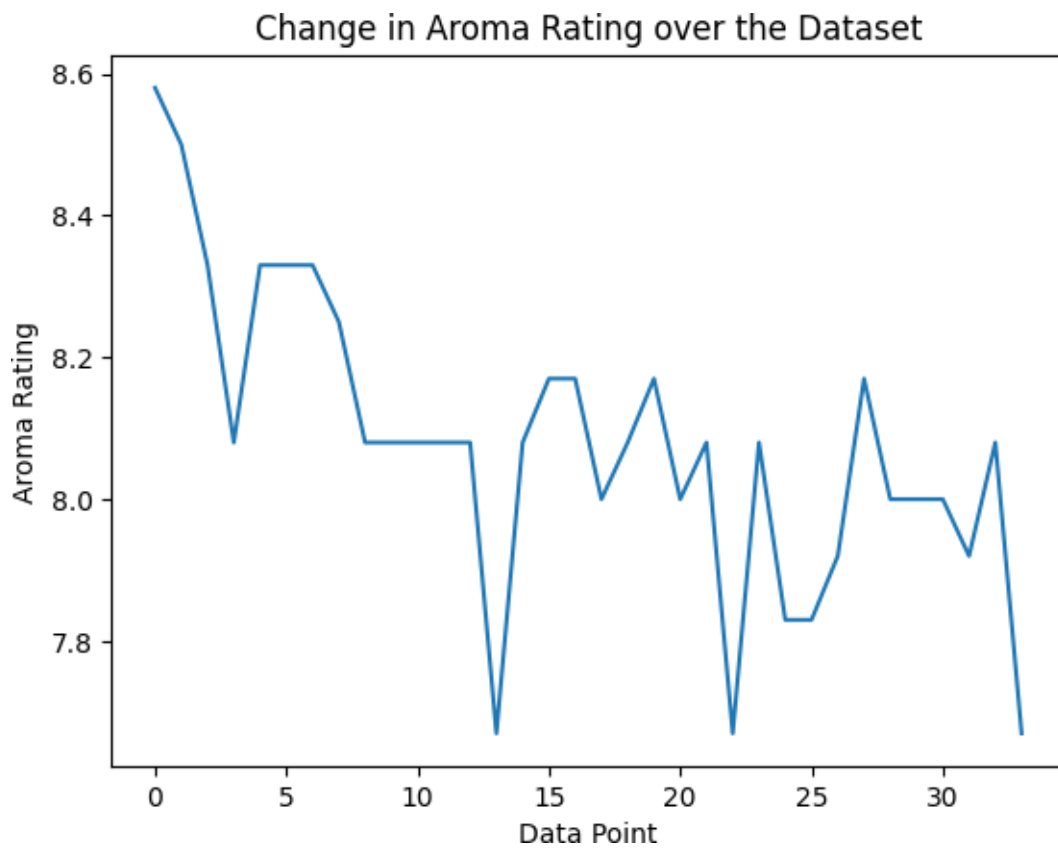
# . Line Chart - Change in aroma rating over the dataset
plt.plot(data["Aroma"])
plt.xlabel("Data Point")
plt.ylabel("Aroma Rating")
plt.title("Change in Aroma Rating over the Dataset")
plt.show()

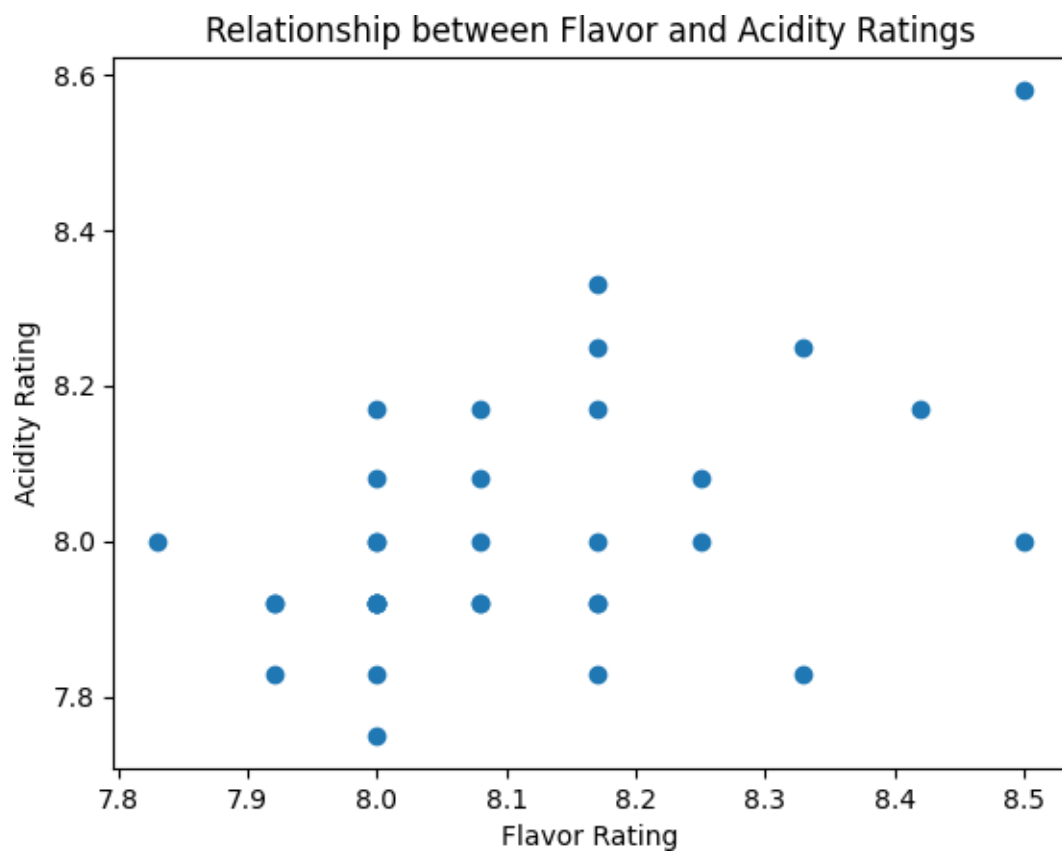
# . Scatter Plot - Relationship between flavor and acidity ratings
plt.scatter(data["Flavor"], data["Acidity"])
plt.xlabel("Flavor Rating")
plt.ylabel("Acidity Rating")
plt.title("Relationship between Flavor and Acidity Ratings")
plt.show()

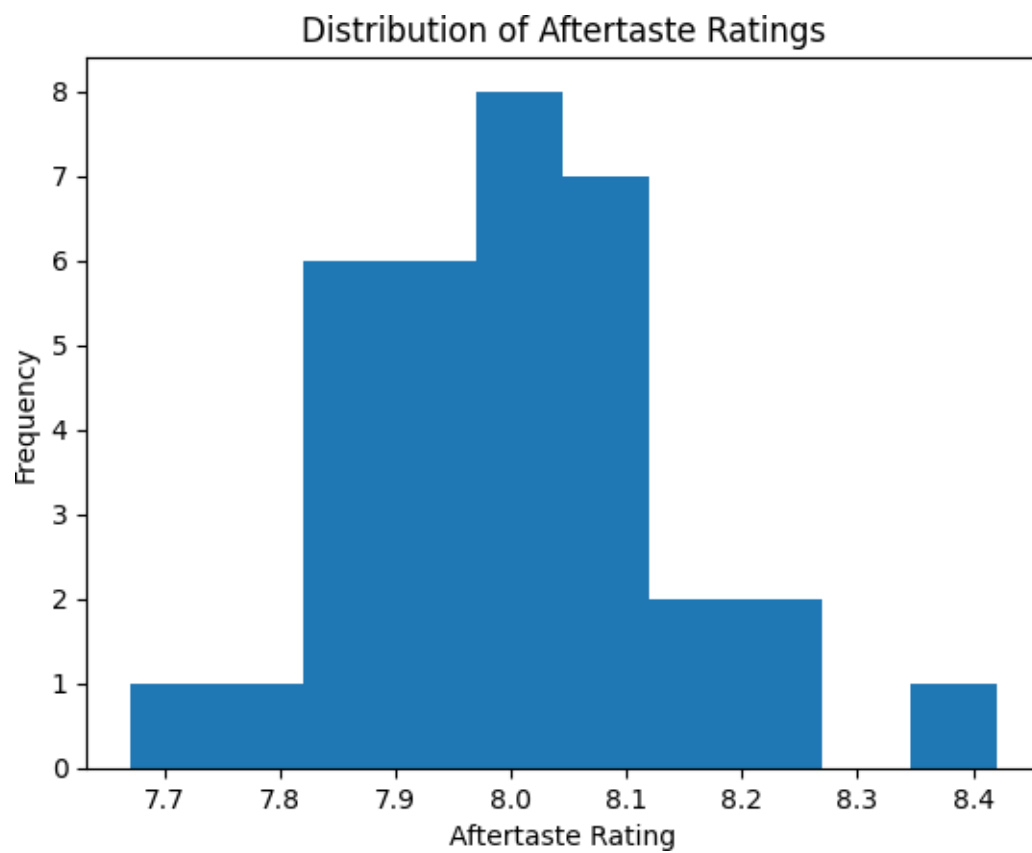
# . Histogram - Distribution of aftertaste ratings
plt.hist(data["Aftertaste"], bins=10)
plt.xlabel("Aftertaste Rating")
plt.ylabel("Frequency")
plt.title("Distribution of Aftertaste Ratings")
plt.show()
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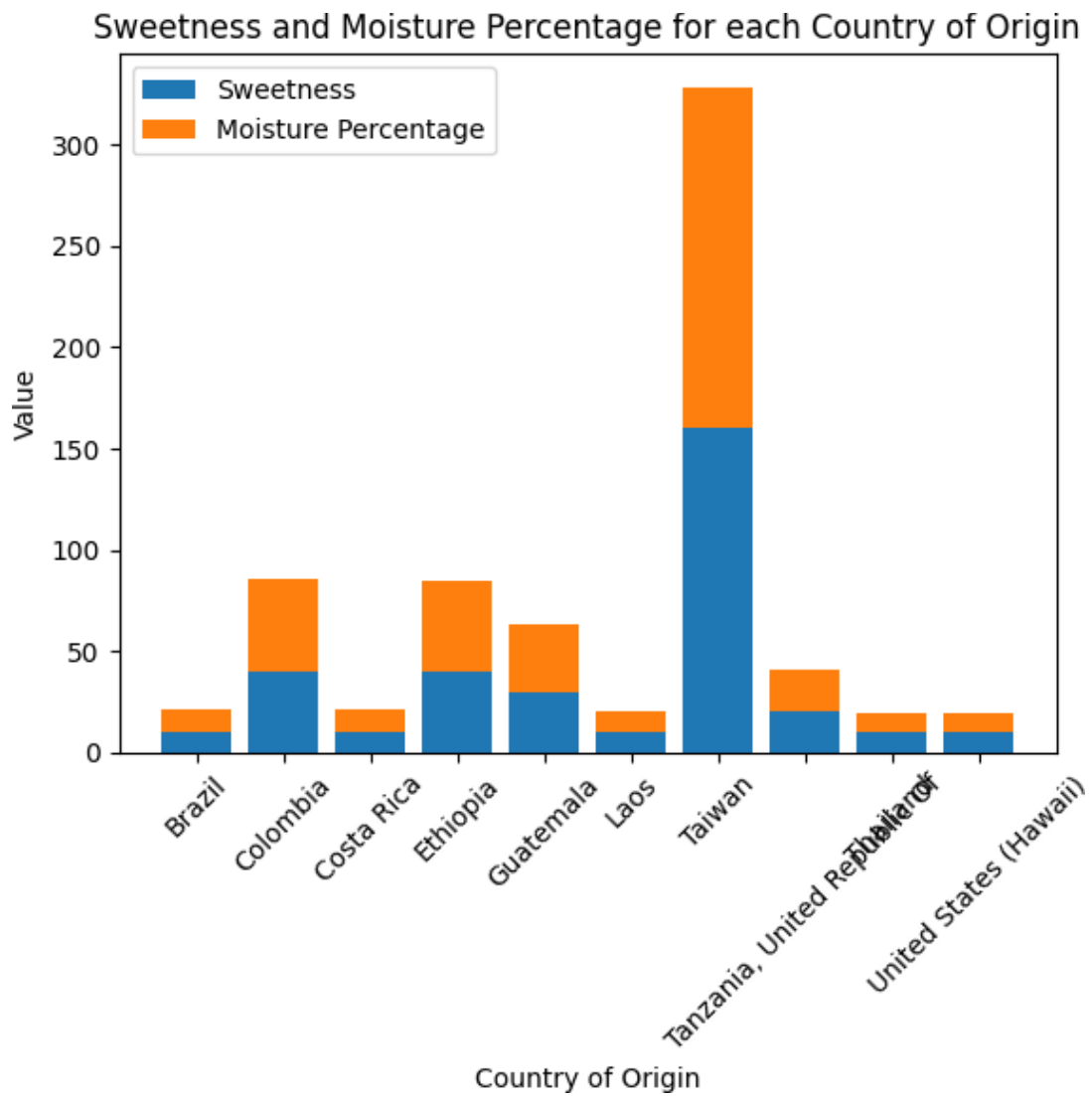
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# . Stacked Bar Chart - Sweetness and moisture percentage for each country of  
↳ origin  
sweetness = data.groupby("Country of Origin")["Sweetness"].sum()  
moisture = data.groupby("Country of Origin")["Moisture Percentage"].sum()  
plt.bar(sweetness.index,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