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import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt


# Download and load the Iris dataset

url = "https://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data"

column_names = ["sepal_length", "sepal_width", "petal_length", "petal_width", "class"]

iris = pd.read_csv(url, header=None, names=column_names)


# 1. List down the features and their types

feature_types = iris.dtypes

print("Features and their types:")

print(feature_types)


# 2. Create a histogram for each feature

plt.figure(figsize=(12, 8))

iris.drop("class", axis=1).hist(edgecolor="black", linewidth=1.2, bins=20, figsize=(12, 8))

plt.suptitle("Histograms for Each Feature", y=0.92)

plt.show()


# 3. Create a box plot for each feature

plt.figure(figsize=(12, 8))

sns.boxplot(data=iris.drop("class", axis=1), palette="Set2")

plt.title("Box Plots for Each Feature")

plt.show()


# 4. Compare distributions and identify outliers

plt.figure(figsize=(12, 8))

sns.boxplot(x="class", y="sepal_length", data=iris, hue="class", palette="Set2", legend=False)

plt.title("Box Plot for Sepal Length by Class")

plt.show()

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