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import seaborn as sns
import matplotlib.pyplot as plt

# Load the Iris dataset
iris_df = sns.load_dataset('iris')

# Display the first few rows of the dataset
print(iris_df.head())

# Check the summary statistics of numerical columns
print(iris_df.describe())

# Check for missing values
print(iris_df.isnull().sum())

# Visualize the distribution of each feature
sns.pairplot(iris_df, hue='species')
plt.show()

# Visualize the distribution of each feature using boxplots
plt.figure(figsize=(10, 6))
plt.subplot(2, 2, 1)
sns.boxplot(x='species', y='sepal_length', data=iris_df)
plt.subplot(2, 2, 2)
sns.boxplot(x='species', y='sepal_width', data=iris_df)
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plt.subplot(2, 2, 3)
sns.boxplot(x='species', y='petal_length', data=iris_df)
plt.subplot(2, 2, 4)
sns.boxplot(x='species', y='petal_width', data=iris_df)
plt.tight_layout()
plt.show()

# Visualize the correlation between features
plt.figure(figsize=(8, 6))
sns.heatmap(iris_df.corr(), annot=True, cmap='coolwarm', fmt=".2f")
plt.title('Correlation Matrix')
plt.show()

# Visualize the distribution of each feature using histograms
iris_df.hist(edgecolor='black', linewidth=1.2, figsize=(12, 8))
plt.show()
```