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import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn import datasets

iris = datasets.load_iris()
X = iris.data # Features
y = iris.target # Target labels
species = iris.target_names[y]

iris_df = pd.DataFrame(X, columns=iris.feature_names)
iris_df['species'] = species

sns.set(style="whitegrid")

# Create a figure with subplots
plt.figure(figsize=(12, 10))

# Violin plot for each feature
features = iris.feature_names

for i, feature in enumerate(features):
    plt.subplot(2, 2, i + 1) # Create a subplot for each feature
    sns.violinplot(x='species', y=feature, data=iris_df,
inner='quartile')
    plt.title(f'Violin Plot of {feature}')
    plt.xlabel('Species')
    plt.ylabel(feature)

# Adjust layout
plt.tight_layout()
plt.show()
```

