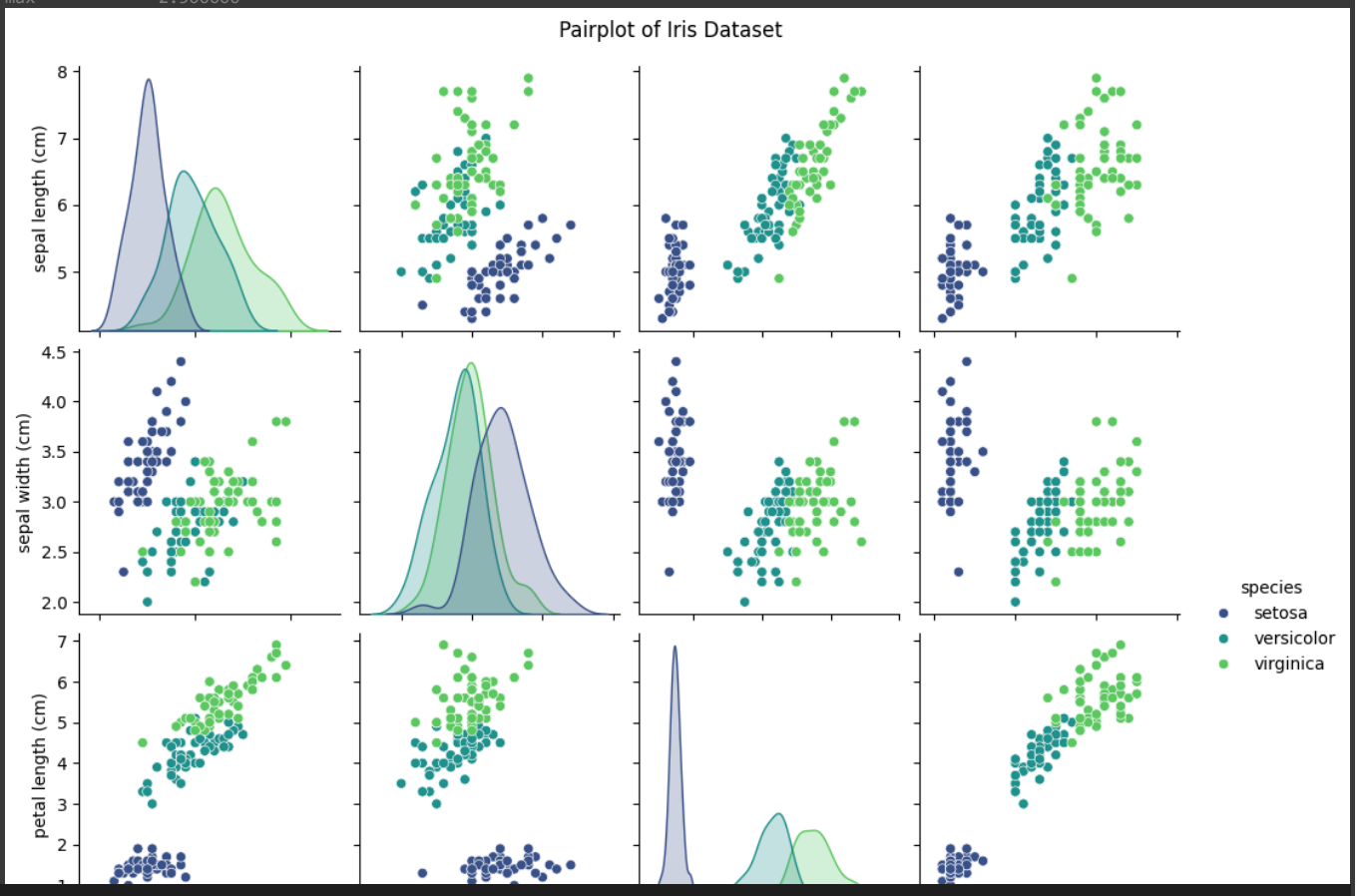
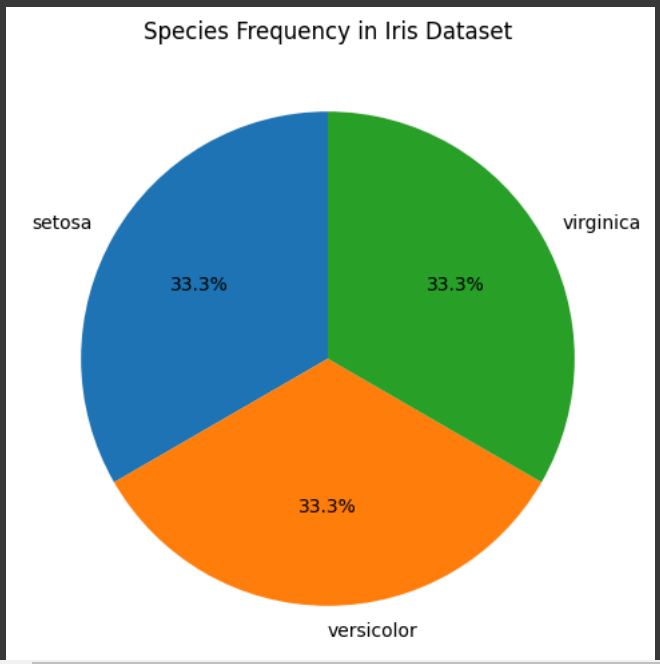
```
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
from sklearn.datasets import load_iris

# Load the Iris dataset
iris_data = load_iris()
iris_df = pd.DataFrame(data=iris_data.data, columns=iris_data.feature_names)
iris_df['species'] = iris_data.target
iris_df['species'] = iris_df['species'].map({0: 'setosa', 1: 'versicolor', 2: 'virginica'})

# Print statistical summary using describe()
print("Statistical Summary of the Iris Dataset:")
print(iris_df.describe())

# Create a pairplot for a visual summary
sns.pairplot(iris_df, hue='species', palette='viridis')

# Set the title for the pairplot
plt.suptitle('Pairplot of Iris Dataset', y=1.02)

# Show the plot
plt.show()
```

```
Statistical Summary of the Iris Dataset:
       sepal length (cm)  sepal width (cm)  petal length (cm)  \
count         150.000000        150.000000         150.000000
mean            5.843333          3.057333           3.758000
std             0.828066          0.435866           1.765298
min             4.300000          2.000000           1.000000
25%             5.100000          2.800000           1.600000
50%             5.800000          3.000000           4.350000
75%             6.400000          3.300000           5.100000
max             7.900000          4.400000           6.900000

       petal width (cm)
count        150.000000
mean           1.199333
std            0.762238
min            0.100000
25%            0.300000
50%            1.300000
75%            1.800000
max            2.500000
```



```
import seaborn as sns
import matplotlib.pyplot as plt
#load the iris dataset
iris = sns.load_dataset('iris')
species_counts = iris['species'].value_counts()
plt.figure(figsize=(6,6))
plt.pie(species_counts, labels=species_counts.index, autopct='%1.1f%%', startangle=90)
plt.title('Species Frequency in Iris Dataset')
#show the plot
plt.show()
```

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import matplotlib.pyplot as plt
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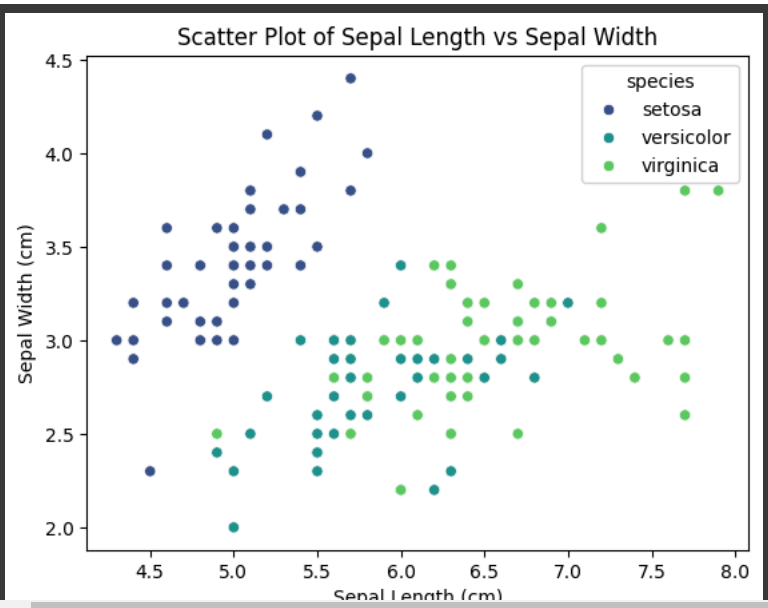
# Load the Iris dataset
iris_data = load_iris()
iris_df = pd.DataFrame(data=iris_data.data, columns=iris_data.feature_names)
iris_df['species'] = iris_data.target
iris_df['species'] = iris_df['species'].map({0: 'setosa', 1: 'versicolor', 2: 'virginica'})

# Create a scatter plot using Seaborn
sns.scatterplot(data=iris_df, x='sepal length (cm)', y='sepal width (cm)', hue='species', palette='viridis')

# Customize the plot with titles and labels
plt.title('Scatter Plot of Sepal Length vs Sepal Width')
plt.xlabel('Sepal Length (cm)')
plt.ylabel('Sepal Width (cm)')

# Show the plot
plt.show()
```

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from sklearn.datasets import load_iris

#load the iris dataset
iris = load_iris()
iris_df = pd.DataFrame(data=iris.data, columns=iris.feature_names)

plt.figure(figsize=(12, 10))

#plot histograms and kde platforms
for i, feature in enumerate(iris.feature_names):
    plt.subplot(2, 2, i+1)
    sns.histplot(iris_df[feature], kde=True, bins=20)
    plt.title(f'Distribution of {feature}')

#adjust layout
plt.tight_layout()

#show the plot
plt.show()
```
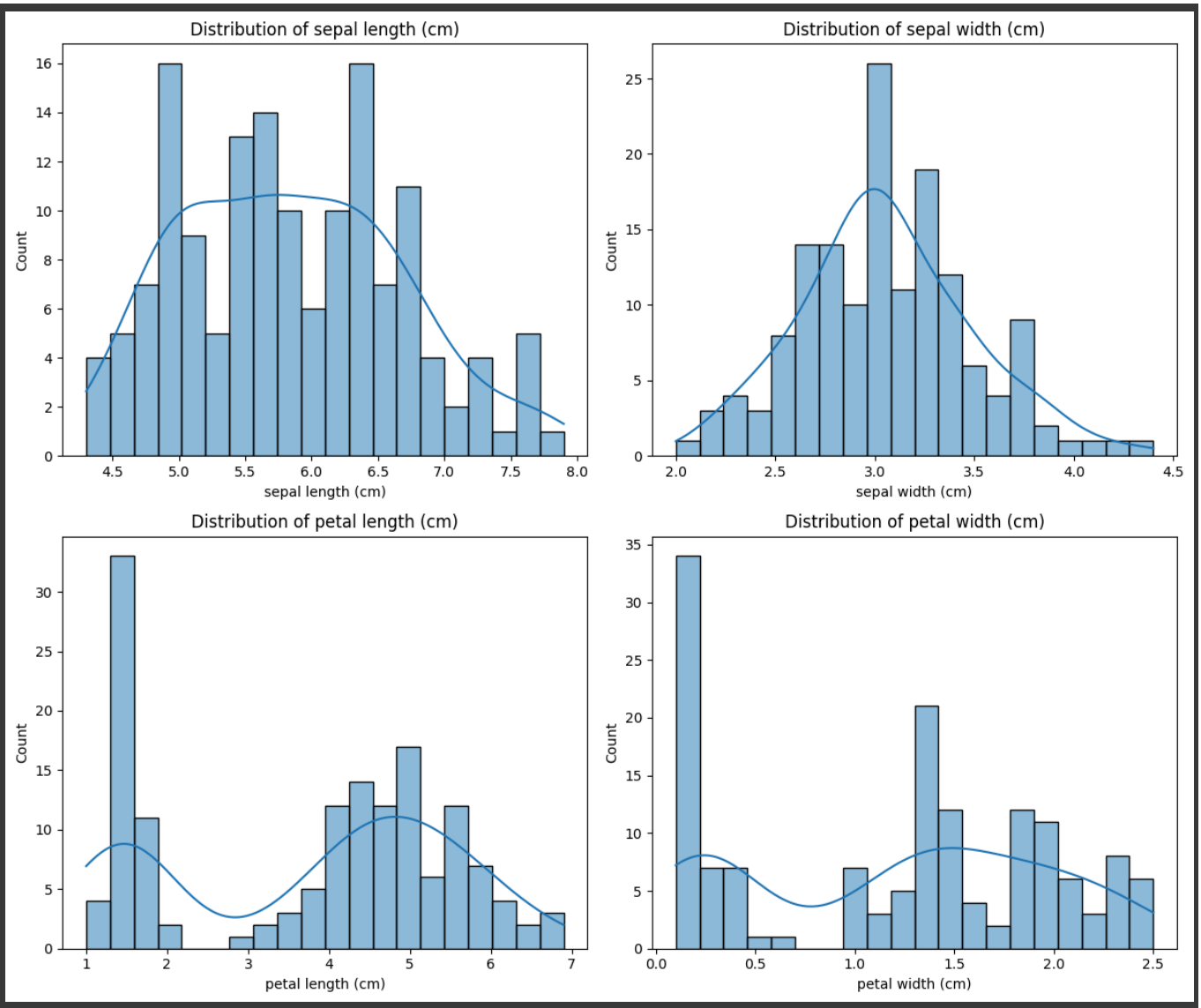
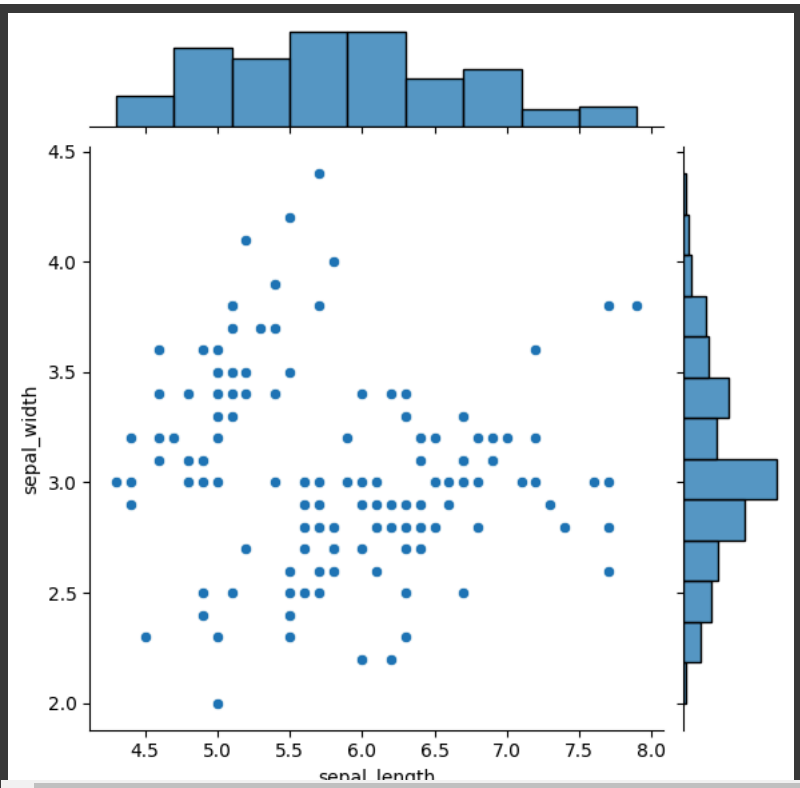
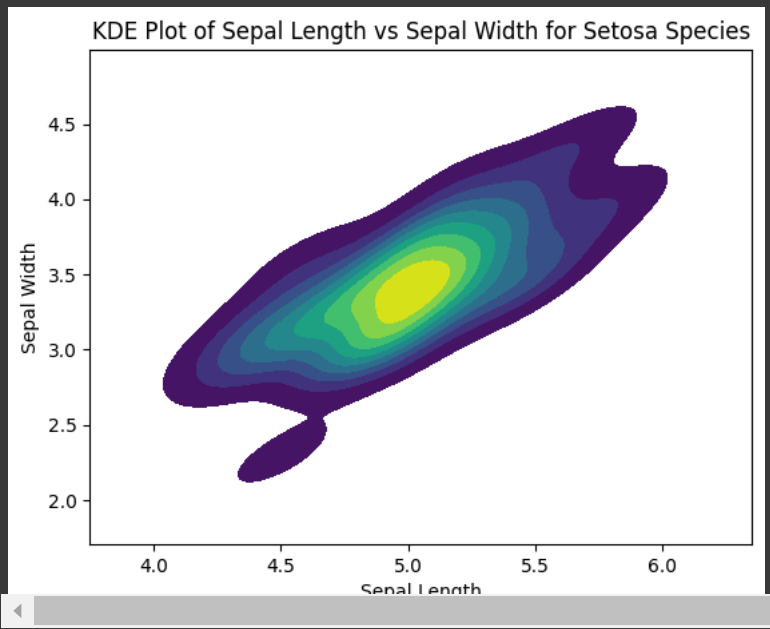




```
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd

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

# Create a joint plot
sns.jointplot(data=iris, x='sepal_length', y='sepal_width', kind='scatter')

# Show the plot
plt.show()
```




```
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd

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

# Filter the dataset for the setosa species
setosa = iris[iris['species'] == 'setosa']

# Create the KDE plot
sns.kdeplot(data=setosa, x='sepal_length', y='sepal_width', fill=True, cmap='viridis')

# Set plot labels and title
plt.xlabel('Sepal Length')
plt.ylabel('Sepal Width')
plt.title('KDE Plot of Sepal Length vs Sepal Width for Setosa Species')

# Show the plot
plt.show()
```

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