Start coding or generate with AI.

Iris flower dataset

Start coding or generate with AI.

Start coding or generate with AI.

Importing important libraries first

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
```

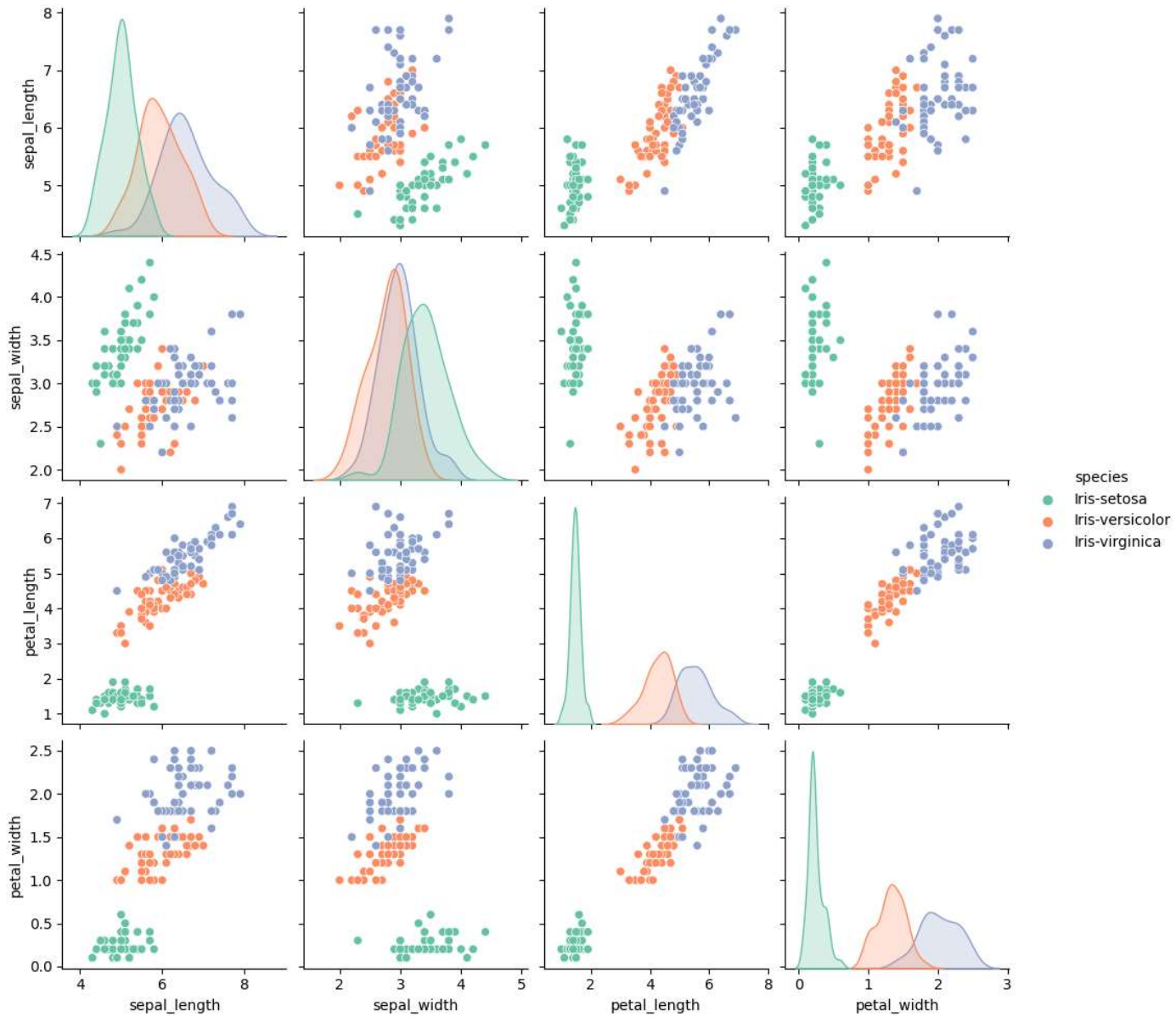
```
# Import the dataset using Seaborn library
iris=pd.read_csv('IRIS.csv')
```

Show hidden output

```
# Checking the dataset
iris.head()
```

```
# Creating a pairplot to visualize the similarities and especially difference between the species
sns.pairplot(data=iris, hue='species', palette='Set2')
```

```
<seaborn.axisgrid.PairGrid at 0x78a0ffdba4d0>
```



Train Test Split

```
from sklearn.model_selection import train_test_split

# Separating the independent variables from dependent variables
x=iris.iloc[:,:-1]
y=iris.iloc[:,4]
x_train,x_test, y_train, y_test=train_test_split(x,y,test_size=0.30)
```

Training and Fitting the model

```
from sklearn.svm import SVC
model=SVC()

model.fit(x_train, y_train)
```

SVC
SVC()

Predictions from the trained model

```
pred=model.predict(x_test)
```

Model Evaluation

```
# Importing the classification report and confusion matrix
```