

```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.svm import SVC
from sklearn.metrics import accuracy_score
import seaborn as sns
import matplotlib.pyplot as plt

# Load the dataset
dataset = pd.read_csv('Iris.csv')

# Visualize the dataset using pairplot
sns.pairplot(dataset, hue='Species')

# Add a title to the plot
plt.title("Iris Dataset - Pairplot")

# Display the plot
plt.show()

# Separate the features and target variable
X = dataset.drop('Species', axis=1).copy()
y = dataset['Species'].copy()

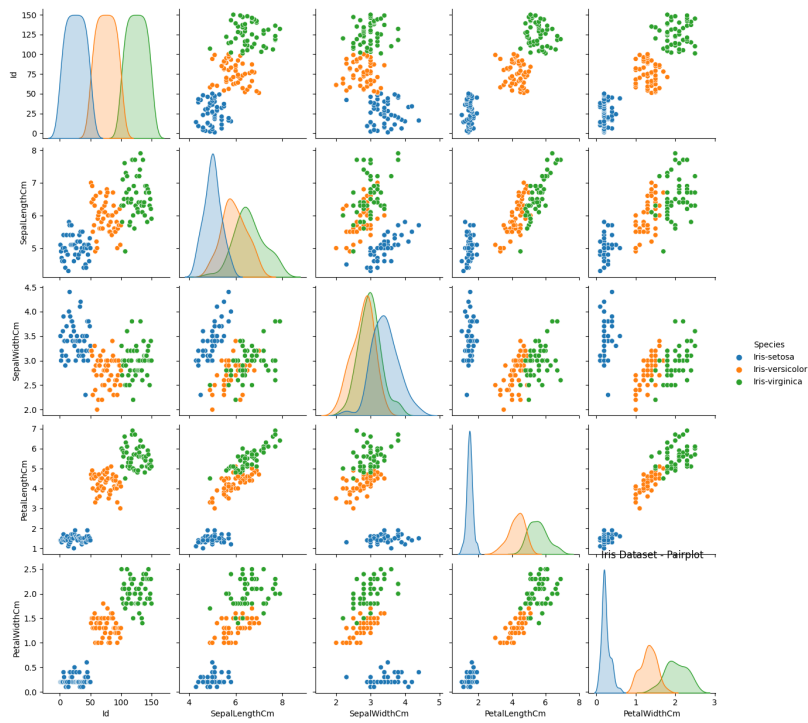
# Split the dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Preprocess the data - Scale the features
scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X_test_scaled = scaler.transform(X_test)

# Train the model - Support Vector Machine (SVM)
model = SVC()
model.fit(X_train_scaled, y_train)

# Make predictions on the testing set
y_pred = model.predict(X_test_scaled)

# Evaluate the model
accuracy = accuracy_score(y_test, y_pred)
print(f"Accuracy: {accuracy}")
print(dataset.head(150))
```



Accuracy: 1.0

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm
0	1	5.1	3.5	
1	2	4.9	3.0	
2	3	4.7	3.2	
3	4	4.6	3.1	
4	5	5.0	3.6	
...	...	...	...	
145	146	6.7	3.0	
146	147	6.3	2.5	
147	148	6.5	3.0	
148	149	6.2	3.4	
149	150	5.9	3.0	

Species

