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In [1]: import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         import seaborn as snb
 In [2]: | iris=pd.read csv('C://Users/Gopi/Desktop/machine learning/csv files/iris.csv')
 In [3]: iris setosa = iris.iloc[0:50,0:5]
         iris versicolor = iris.iloc[50:100,0:5]
         iris vergenica = iris.iloc[100:150,0:5]
 In [4]: df1 = pd.DataFrame(iris setosa.iloc[0:25,0:5])
         df2 = pd.DataFrame(iris versicolor.iloc[0:25,0:5])
         df3 = pd.DataFrame(iris vergenica.iloc[0:25,0:5])
 In [5]: iris train = pd.concat([df1,df2,df3])
         X train = iris train.iloc[:,0:4]
         y train = iris train.iloc[:,4]
 In [6]: df1 = pd.DataFrame(iris_setosa.iloc[25:50,0:5])
         df2 = pd.DataFrame(iris versicolor.iloc[25:50,0:5])
         df3 = pd.DataFrame(iris vergenica.iloc[25:50,0:5])
 In [7]: iris test= pd.concat([df1,df2,df3])
         X test = iris test.iloc[:,0:4]
         y_test = iris_test.iloc[:,4]
In [23]: from sklearn.svm import SVC
         classifier = SVC(kernel = 'linear', random_state = 0)
         classifier.fit(X train, y train)
         y_pred = classifier.predict(X test)
         from sklearn.metrics import confusion matrix,accuracy score
         cm = confusion_matrix(y_test, y_pred)
         print(cm)
         Accuracy_Score1 = accuracy_score(y_test, y_pred)
         Accuracy Score1
         [[25 0 0]
          [ 0 24 1]
          [ 0 3 22]]
Out[23]: 0.9466666666666667
In [24]: from sklearn.svm import SVC
         classifier = SVC (kernel = 'rbf', random state = 0)
         classifier.fit(X train, y train)
         y_pred = classifier.predict(X_test)
         from sklearn.metrics import confusion_matrix,accuracy_score,classification_report
         cm = confusion_matrix(y_test, y_pred)
         print(cm)
         Accuracy_Score2 = accuracy_score(y_test, y_pred)
         Accuracy Score2
         [[25 0 0]
          [ 0 24 1]
          [ 0 4 21]]
         C:\Users\Gopi\Anaconda3\lib\site-packages\sklearn\svm\base.py:193: FutureWarning: The default va
         lue of gamma will change from 'auto' to 'scale' in version 0.22 to account better for unscaled f
         eatures. Set gamma explicitly to 'auto' or 'scale' to avoid this warning.
           "avoid this warning.", FutureWarning)
Out[24]: 0.93333333333333333
```