In [6]:

*#Importing neccesary packages #Load Libraries*

**from** sklearn.ensemble **import** AdaBoostClassifier

**from** sklearn **import** datasets

**from** sklearn.model\_selection **import** train\_test\_split

**from** sklearn **import** metrics

In [9]:

*# Load data*

iris **=**datasets**.**load\_iris()

X **=** iris**.**data

y **=** iris**.**target

In [10]:

*# Split dataset into training set and test set*

X\_train, X\_test, y\_train, y\_test **=** train\_test\_split(X, y, test\_size**=**0.2)

In [11]:

*# Create adaboost classifer object*

AdaModel **=** AdaBoostClassifier(n\_estimators**=**100, learning\_rate**=**1)

*#Train Adaboost Classifer*

model **=** AdaModel**.**fit(X\_train, y\_train)

*#Predict the response for test dataset*

y\_pred **=** model**.**predict(X\_test)

In [12]:

*# Model Accuracy, how often is the classifier correct?*

print("Accuracy:",metrics**.**accuracy\_score(y\_test, y\_pred))

Accuracy: 1.0

In [17]:

*# Import Support Vector Classifier*

**from** sklearn.svm **import** SVC

*#Import scikit-Learn metrics module for accuracy calculation*

**from** sklearn **import** metrics

svc **=** SVC(probability**=True**, kernel**=**'linear')

*#Create adaboost classifer object*

abc **=** AdaBoostClassifier(n\_estimators**=**50, base\_estimator**=**svc, learning\_rate**=**1)

In [18]:

*# Train Adaboost Classifer*

model **=** abc**.**fit(X\_train, y\_train)

*#Predict the response for test dataset*

y\_pred **=** model**.**predict(X\_test)

C:\Users\LAB2\_31\anaconda3\lib\site-packages\sklearn\ensemble\\_base.py:166: FutureW arning: `base\_estimator` was renamed to `estimator` in version 1.2 and will be remo ved in 1.4.

warnings.warn(

In [19]:

print ("Accuracy:",metrics**.**accuracy\_score(y\_test,y\_pred))

Accuracy: 1.0