**Perceptron IRIS classiification**

CODE:

from sklearn import datasets

import numpy as np

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

from sklearn.linear\_model import Perceptron

from sklearn.preprocessing import StandardScaler

from sklearn.metrics import accuracy\_score

iris = datasets.load\_iris()

X = iris.data[:, [2, 3]]

y = iris.target

X\_train, X\_test, y\_train, y\_test = train\_test\_split(

X, y, test\_size=0.3, random\_state=1, stratify=y)

sc = StandardScaler()

sc.fit(X\_train)

X\_train\_std = sc.transform(X\_train)

X\_test\_std = sc.transform(X\_test)

ppn = Perceptron(eta0=0.1, random\_state=1)

ppn.fit(X\_train\_std, y\_train)

y\_pred = ppn.predict(X\_test\_std)

print('Accuracy: %.3f' % accuracy\_score(y\_test, y\_pred))

print('Accuracy: %.3f' % ppn.score(X\_test\_std, y\_test))

OUTPUT:

========== RESTART: C:/Users/prith/Desktop/MACHINE LEARNING/18. APP.py =========

Accuracy: 0.978

Accuracy: 0.978

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