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In [31]: from sklearn.datasets import load_iris
from sklearn.model_selection import train_test_split
from sklearn.neighbors import KNeighborsClassifier
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd

#training data set using iris model because given data set is oragnized
dataset = load_iris()
#splitting data set
X_train, X_test, y_train, y_test = train_test_split(dataset['data'], dataset['target'],
knn = KNeighborsClassifier(n_neighbors=1)
knn.fit(X_train, y_train)

#reading new data set
testdataset = pd.read_csv('iris.csv')
#reading individual values to match the iris dataset syntax

a = testdataset.iloc[:, 1].values
b = testdataset.iloc[:, 2].values
c = testdataset.iloc[:, 3].values
d = testdataset.iloc[:, 4].values
answer_dataset = testdataset.iloc[:, 5].values
X_testdata = []
#feding the data set for prediction into array
for i in range(a.size):
    X_testdata.append([a[i] , b[i] , c[i] , d[i]])
X_test = np.array(X_testdata)

#prediction
prediction = knn.predict(X_test)
print(prediction)
prediction_dataset = dataset['target_names'][prediction]

#matching the results for comparement and calculating score
score = 0
for i in range(a.size):

    if(prediction_dataset[i] == answer_dataset[i]):
        score += 1

print("accuracy : ")
print(score / 150 * 100)

#for any new entry just update the iris.csv with new values to check the result.

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[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2 2]
accuracy :
99.33333333333333

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In [18]: print("Samarthya Gupta")

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Samarthya Gupta