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from sklearn.model_selection import train_test_split
from sklearn.neighbors import KNeighborsClassifier
from sklearn import datasets

iris = datasets.load_iris()
print("Iris Data set loaded...")
x_train, x_test, y_train, y_test = train_test_split(iris.data, iris.target, test_size=0.1)

for i in range(len(iris.target_names)):
    print("Label", i, "-", str(iris.target_names[i]))

classifier = KNeighborsClassifier(n_neighbors=2)
classifier.fit(x_train, y_train)
y_pred = classifier.predict(x_test)

print("Results of Classification using K-nn with K=2 ")
for r in range(0, len(x_test)):
    print(" Sample:", str(x_test[r]), " Actual-label:", str(y_test[r]), " Predicted-label:", str(y_pred[r]))

print("Classification Accuracy:", classifier.score(x_test, y_test))
```