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In [3]: from scipy.spatial import distance
def euc(a,b):
    return distance.euclidean(a,b)
class ScrappyKNN():
    def fit(self, X train, y train):
         self.X train = X train
         self.y train = y train
    def predict(self, X test):
        predictions = []
        for row in X test:
            label = self.closest(row)
             predictions.append(label)
         return predictions
    def closest(self,row):
        best dist = euc(row, self.X train[0])
        best index = 0
         for i in range(1,len(self.X train)):
             dist = euc(row, self.X train[i])
             if dist < best dist:</pre>
                 best dist = dist
                 best index = i
         return self.y train[best index]
from sklearn import datasets
iris = datasets.load iris()
X = iris.data
y = iris.target
from sklearn.cross validation import train test split
X train, X test, y train, y test = train test split(X, y, test size = .5)
#from sklearn.neighbors import KNeighborsClassifier
my classifier = ScrappyKNN()
my classifier.fit(X train, y train)
predictions = my classifier.predict(X test)
from sklearn.metrics import accuracy score
print(accuracy score(y test, predictions))
```