import pandas as pd

from sklearn.linear\_model import LinearRegression

from sklearn.svm import SVC # "Support Vector Classifier"

def reg(file,impacts,outcome,inps):

data = pd.read\_csv(file)

X = data[impacts]

Y = data[outcome]

linear\_regressor = LinearRegression()

linear\_regressor.fit(X, Y)

nx = [inps]

pred = linear\_regressor.predict(nx)

return pred

def classify(file,impacts,outcome,inps):

data = pd.read\_csv(file)

X = data[impacts]

Y = data[outcome]

Y = Y.round()

clf = SVC(kernel='linear')

clf.fit(X,Y)

nx = [inps]

pred = clf.predict(nx)

return pred

print('bot: hi')

x=input('me: ')

for i in range(0,3):

d={'a':['hello','good morn','hi']}

if d.get('a')[i]==x:

print('bot: how can i help you?')

input('me: ')

x1=input('bot:Sure! I can do that for you. WHAT MODEL DO YOU WANT ? regression/classification:' )

print('please enter the following values , so i can help you to predict:')

FANS = float(input("Enter fan: "))

LIGHTS = float(input("Enter light: "))

ACs = float(input("Enter AC: "))

COMPUTERS = float(input("Enter computer: "))

VEHICLES = float(input("Enter vehicle: "))

if x1=='regression':

p = reg('PlantationPrediction.csv',["FANS","LIGHTS","ACs","COMPUTERS","VEHICLES"],"PLANTS",[FANS,LIGHTS,ACs,COMPUTERS,VEHICLES])

print("The number of plants needed are: ",float(p[0]))

else:

p = classify('PlantationPrediction.csv',["FANS","LIGHTS","ACs","COMPUTERS","VEHICLES"],"PLANTS",[FANS,LIGHTS,ACs,COMPUTERS,VEHICLES])

print("The number of plants are: ",float(p[0]))