# -\*- coding: utf-8 -\*-

"""

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import pandas as pd

from sklearn.linear\_model import LinearRegression

from sklearn.svm import SVC

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

msg1 = input("You: ")

if "hello" in msg1:

print("Bot:hello")

print("Bot:how may i help you?")

msg2 = input("You: ")

if "predict" in msg2:

print("Bot:what do you want to predict exactly")

msg3 = input("You: ")

print("Bot:How do you want to predict the data(classification/regression)")

msg = input("You: ")

if "regression" in msg:

print("Bot:please enter the regression data")

elif "classification" in msg:

print("Bot:please enter the classification data")

Age = int(input("Enter age "))

Sex = int(input("Enter sex "))

Chestpain = int(input("Enter value chest pain: "))

BP = int(input("Enter bp: "))

Cholestrol = int(input("Enter cholestrol: "))

Sugar= int(input("Enter sugar: "))

Heartrate = int(input("Enter heart rate: "))

Inherited = int(input("Enter inherited: "))

Oxygenlevels= int(input("Enter oxygen levels: "))

if "regression" in msg:

p = reg('heartattack.csv',["Age","Sex","Chestpain","BP","Cholestrol","Sugar","Heartrate","Inherited","Oxygenlevels"],"Outcome",[Age,Sex,Chestpain,BP,Cholestrol,Sugar,Heartrate,Inherited,Oxygenlevels])

print("The % percentage of heartattack: ",float(p[0])\*100)

elif "classification" in msg:

p = classify('heartattack.csv',["Age","Sex","Chestpain","BP","Cholestrol","Sugar","Heartrate","Inherited","Oxygenlevels"],"Outcome",[Age,Sex,Chestpain,BP,Cholestrol,Sugar,Heartrate,Inherited,Oxygenlevels])

print("The % percentage of heartattack: ",float(p[0]))

print("Bot:hope u got ur requirement.Any other queries?")