import pandas as pd

from sklearn.linear\_model import LinearRegression

from sklearn.svm import SVC

print("Bot: Hi!!")

msg = input("You: ")

if "predict" in msg:

print("Bot: Sure, you want to go with regression or classification model?")

msg = input("You: ")

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]

clf = SVC(kernel='linear')

clf.fit(X,Y)

nx = [inps]

pred = clf.predict(nx)

return pred

LTP=float(input("Enter LTP: "))

change=float(input("Enter CHANGE: "))

tradedqty =float(input("Enter TRADEDQTY: "))

value =float(input("Enter VALUE: "))

openx = float(input("Enter OPENX: "))

high = float(input("Enter HIGH: "))

low = float(input("Enter LOW: "))

prevclose= float(input("Enter PREVCLOSE: "))

weight= float(input("Enter WEIGHT: "))

if "regression" in msg:

p = reg('StockMarketPrediction.csv',["LTP","change","tradedqty","value","openx","high","low","prevclose","weight"],"outcome",[LTP,change,tradedqty,value,openx,high,low,prevclose,weight])

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

if "classification" in msg:

p = classify('StockMarketPrediction.csv',["LTP","change","tradedqty","value","openx","high","low","prevclose","weight"],"outcome",[LTP,change,tradedqty,value,openx,high,low,prevclose,weight])

print("The investment is: ",float(p[0]))