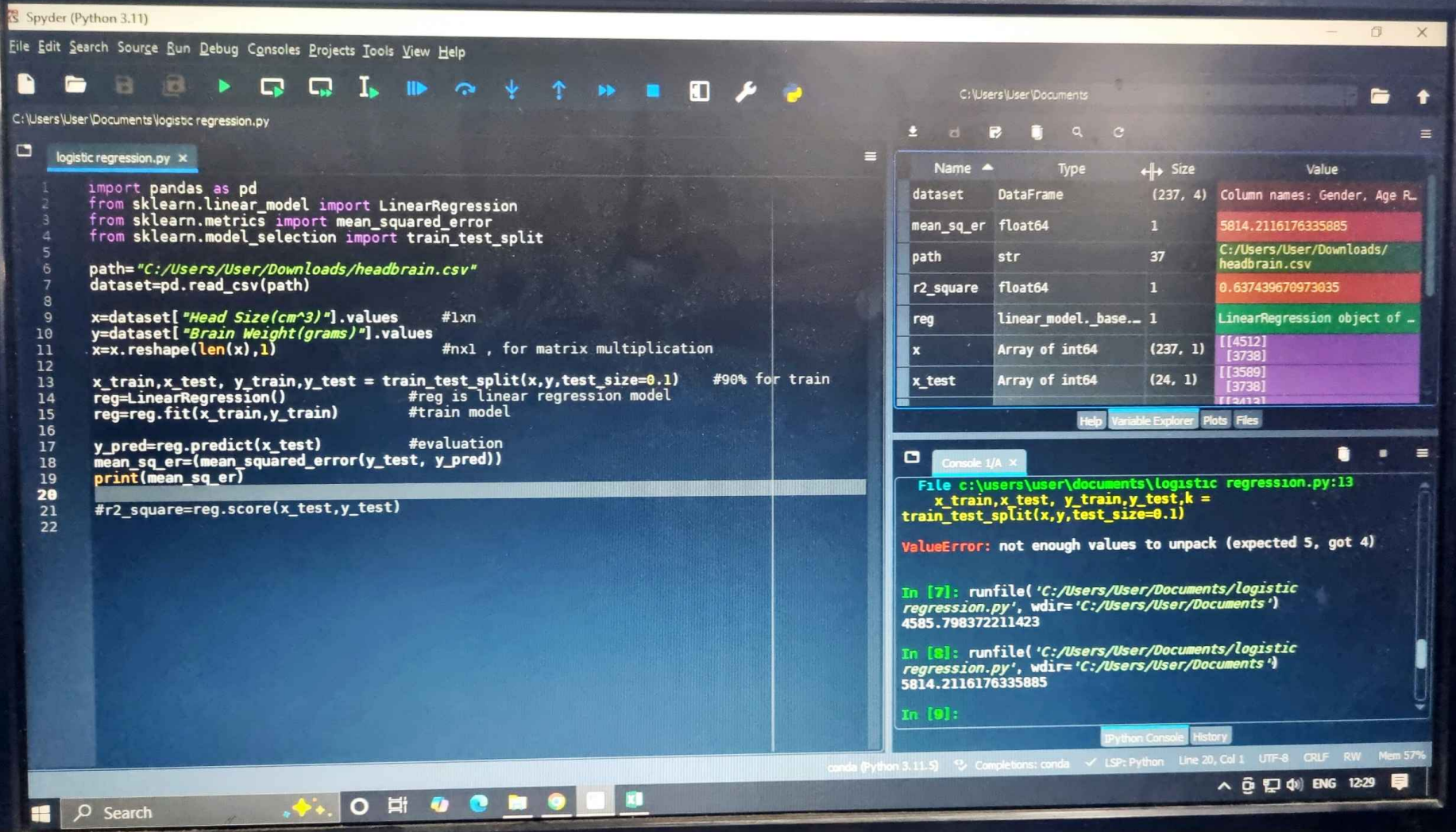
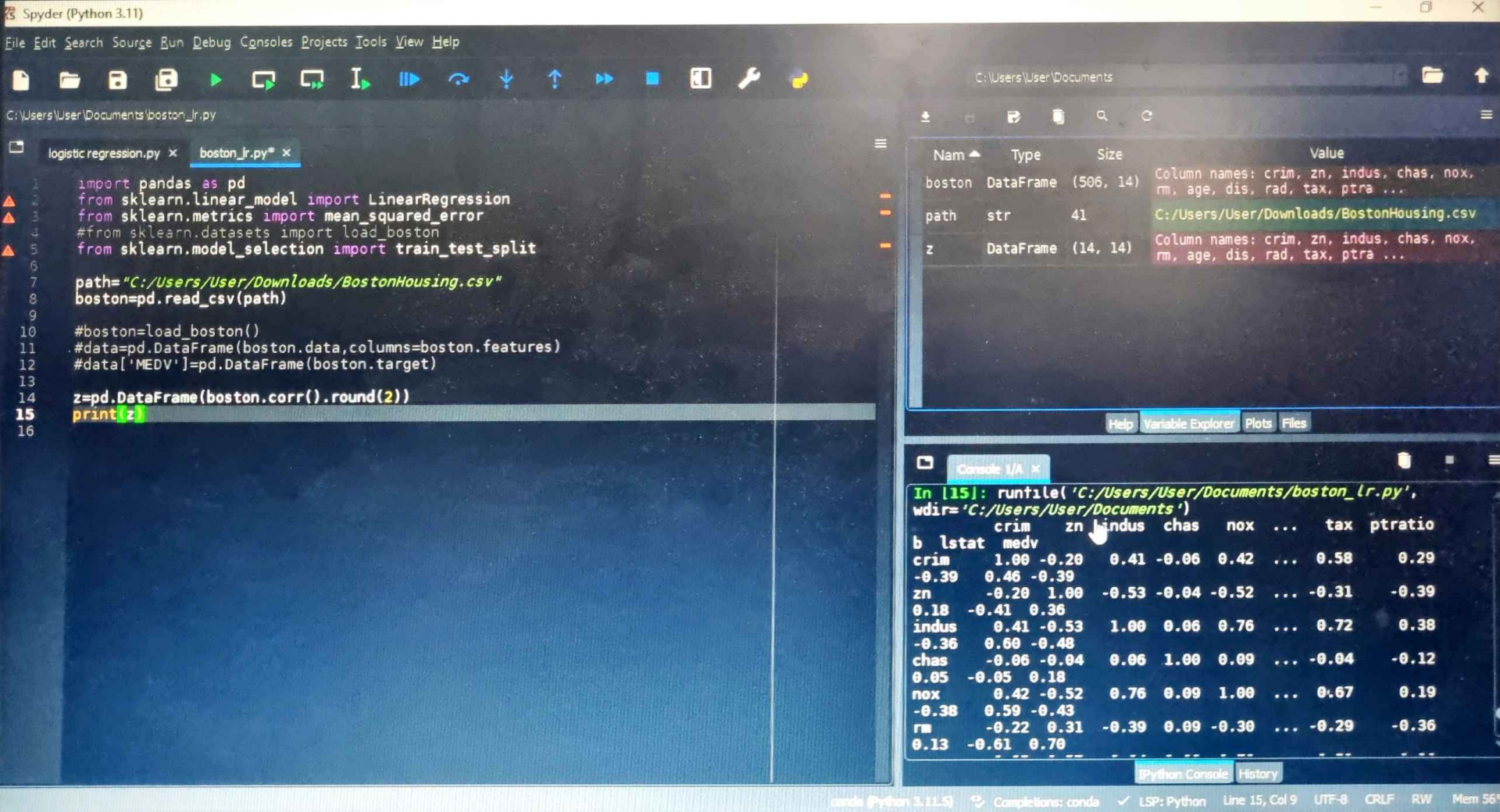

Spyder (Python 3.11)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\User\Documents\logistic regression.py
logistic regression.py
import pandas as pd
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error
from sklearn.model_selection import train_test_split
path="C:/Users/User/Downloads/headbrain.csv"
dataset=pd.read_csv(path)
x=dataset["Head Size(cm^3)"].values #1xn
y=dataset["Brain Weight(grams)"].values
x=x.reshape(len(x),1) #nx1 , for matrix multiplication
x_train,x_test, y_train,y_test = train_test_split(x,y,test_size=0.1) #90% for train
reg=LinearRegression() #reg is linear regression model
reg=reg.fit(x_train,y_train) #train model
y_pred=reg.predict(x_test) #evaluation
mean_sq_er=(mean_squared_error(y_test, y_pred))
print(mean_sq_er)
#r2_square=reg.score(x_test,y_test)
C:\Users\User\Documents
Name Type Size Value
dataset DataFrame (237, 4) Column names: Gender, Age R...
mean_sq_er float64 1 5814.2116176335885
path str 37 C:/Users/User/Downloads/headbrain.csv
r2_square float64 1 0.637439670973035
reg linear_model._base... 1 LinearRegression object of ...
x Array of int64 (237, 1) [[4512] [3738]
x_test Array of int64 (24, 1) [[3589] [3738]
Help Variable Explorer Plots Files
Console 1/A
File c:\users\user\documents\logistic regression.py:13
x_train,x_test, y_train,y_test,k = train_test_split(x,y,test_size=0.1)
ValueError: not enough values to unpack (expected 5, got 4)
In [7]: runfile('C:/Users/User/Documents/logistic regression.py', wdir='C:/Users/User/Documents')
4585.798372211423
In [8]: runfile('C:/Users/User/Documents/logistic regression.py', wdir='C:/Users/User/Documents')
5814.2116176335885
In [9]:
IPython Console History
conda (Python 3.11.5) Completions: conda LSP: Python Line 20, Col 1 UTF-8 CRLF RW Mem 57%
Search
ENG 12:29


Spyder (Python 3.11)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\User\Documents\boston_lr.py
logistic regression.py
boston_lr.py*
import pandas as pd
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error
#from sklearn.datasets import load_boston
from sklearn.model_selection import train_test_split
path="C:/Users/User/Downloads/BostonHousing.csv"
boston=pd.read_csv(path)
#boston=load_boston()
#data=pd.DataFrame(boston.data,columns=boston.features)
#data['MEDV']=pd.DataFrame(boston.target)
z=pd.DataFrame(boston.corr().round(2))
print(z)
C:\Users\User\Documents
Nam
Type
Size
Value
boston
DataFrame
(506, 14)
Column names: crim, zn, indus, chas, nox, rm, age, dis, rad, tax, ptra ...
path
str
41
C:/Users/User/Downloads/BostonHousing.csv
z
DataFrame
(14, 14)
Column names: crim, zn, indus, chas, nox, rm, age, dis, rad, tax, ptra ...
Help
Variable Explorer
Plots
Files
Console 1/A
In [15]: runfile('C:/Users/User/Documents/boston_lr.py', wdir='C:/Users/User/Documents')
crim zn indus chas nox ... tax ptratio
b lstat medv
crim 1.00 -0.20 0.41 -0.06 0.42 ... 0.58 0.29
-0.39 0.46 -0.39
zn -0.20 1.00 -0.53 -0.04 -0.52 ... -0.31 -0.39
0.18 -0.41 0.36
indus 0.41 -0.53 1.00 0.06 0.76 ... 0.72 0.38
-0.36 0.60 -0.48
chas -0.06 -0.04 0.06 1.00 0.09 ... -0.04 -0.12
0.05 -0.05 0.18
nox 0.42 -0.52 0.76 0.09 1.00 ... 0.67 0.19
-0.38 0.59 -0.43
rm -0.22 0.31 -0.39 0.09 -0.30 ... -0.29 -0.36
0.13 -0.61 0.70
IPython Console
History
conda (Python 3.11.5)
Completions: conda
LSP: Python
Line 15, Col 9
UTF-8
CRLF
RW
Mem 56%