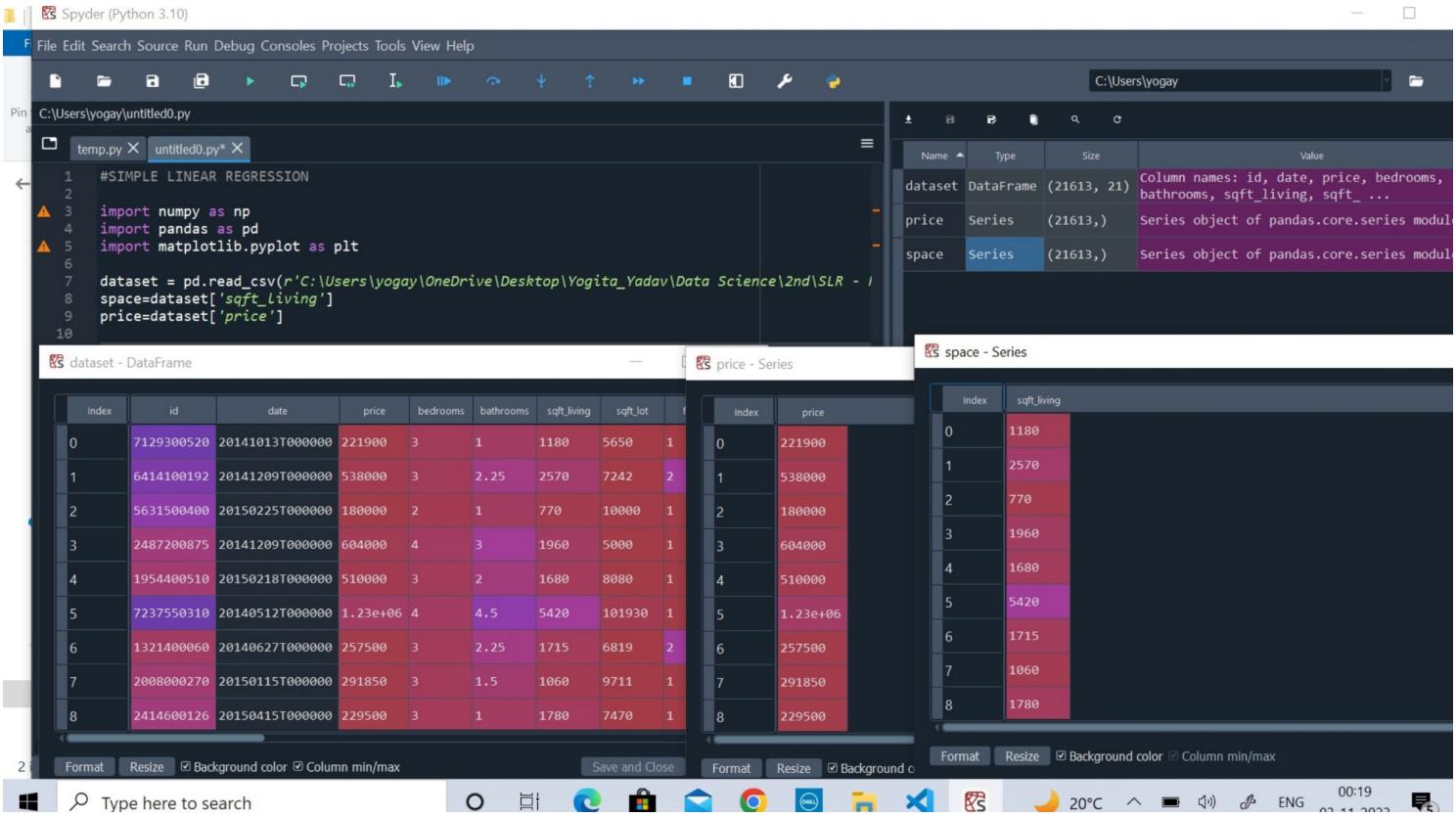
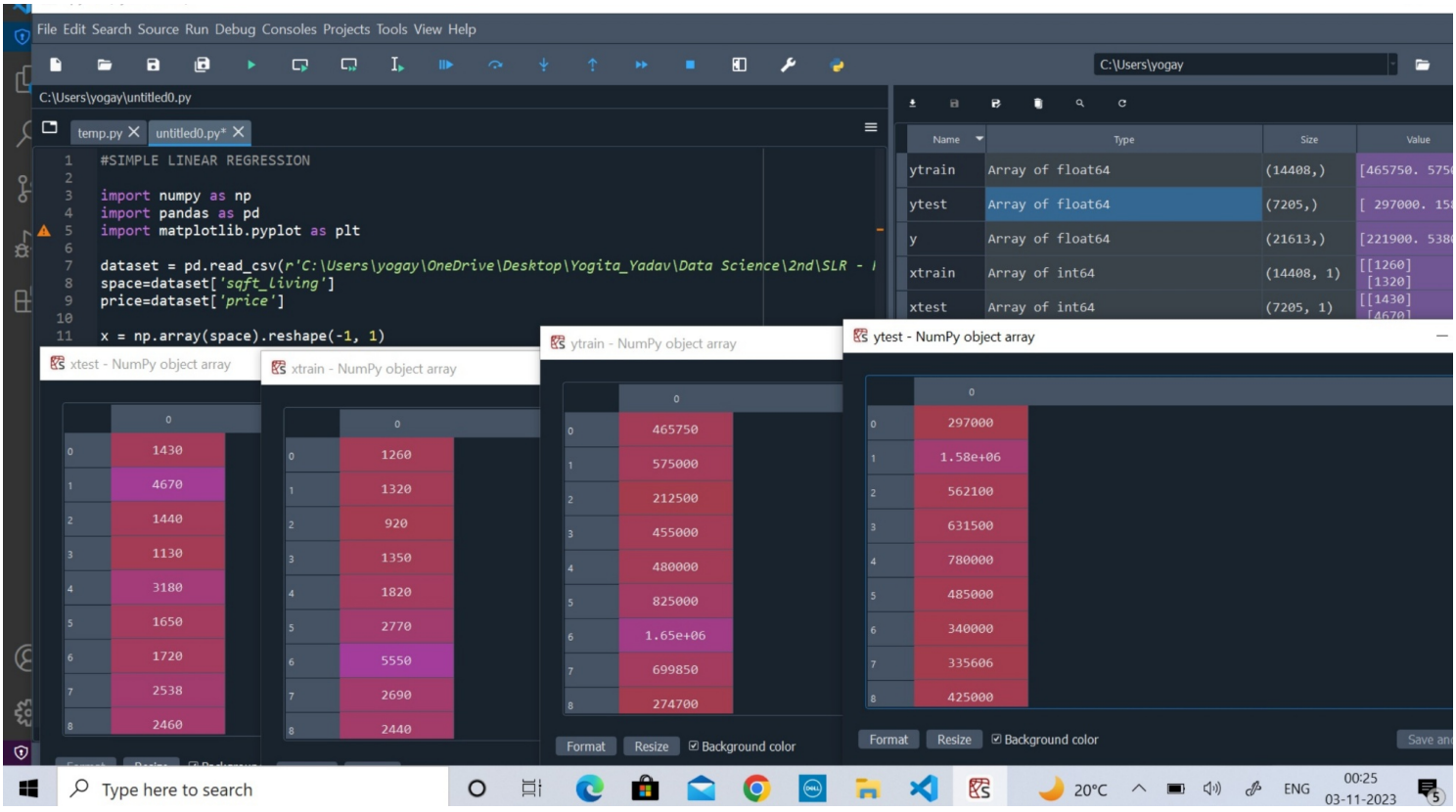
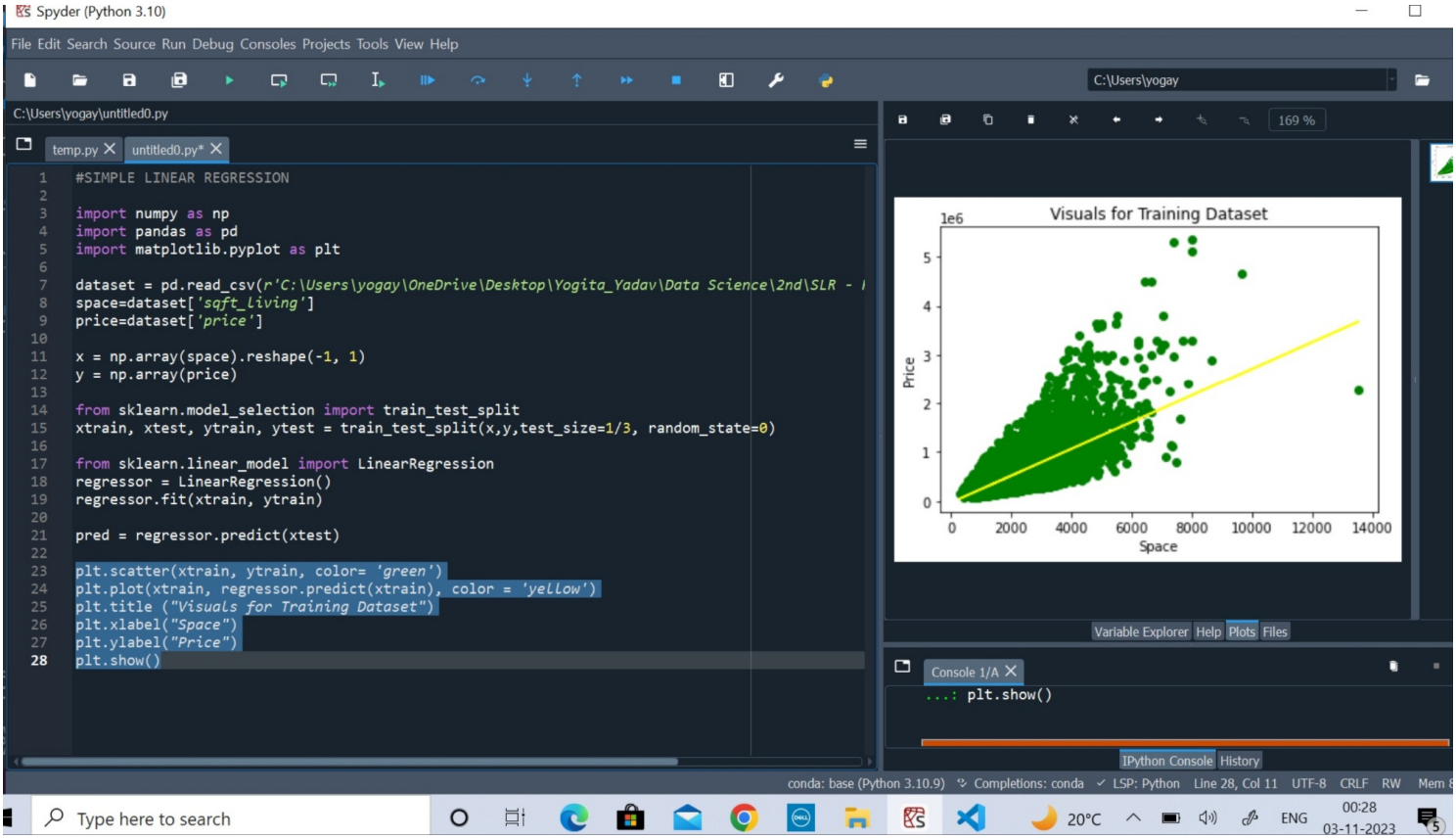
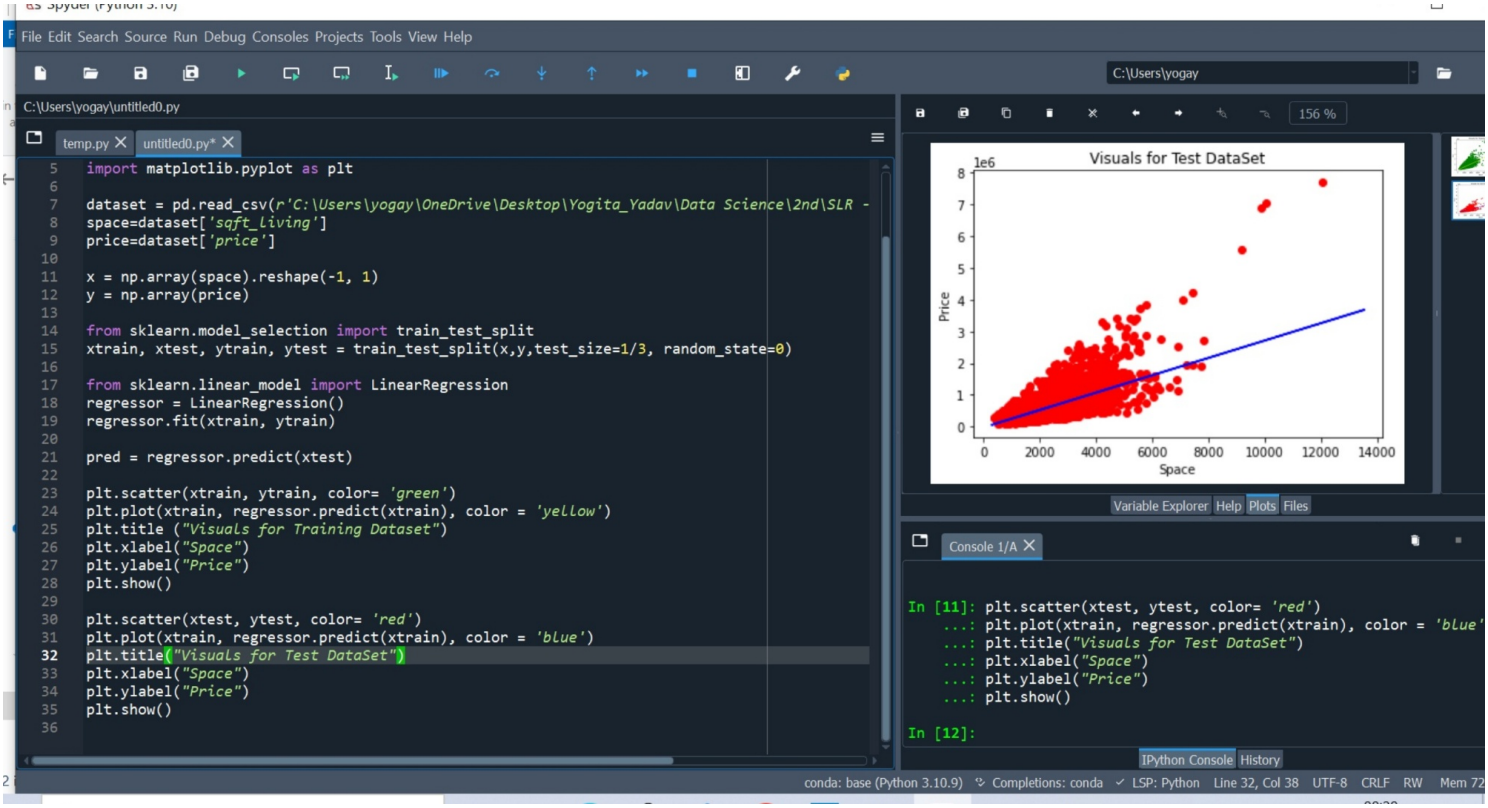

Spyder (Python 3.10)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\yogay
C:\Users\yogay\untitled0.py
temp.py
untitled0.py*
#SIMPLE LINEAR REGRESSION
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
dataset = pd.read_csv(r'C:\Users\yogay\OneDrive\Desktop\Yogita_Yadav\Data Science\2nd\SLR - I
space=dataset['sqft_living']
price=dataset['price']
Name Type Size Value
dataset DataFrame (21613, 21) Column names: id, date, price, bedrooms, bathrooms, sqft_living, sqft_ ...
price Series (21613,) Series object of pandas.core.series modul
space Series (21613,) Series object of pandas.core.series modul
dataset - DataFrame
price - Series
space - Series
Format
Resize
Background color
Column min/max
Save and Close
Type here to search
20°C
ENG
00:19


File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\yogay
C:\Users\yogay\untitled0.py
temp.py
untitled0.py*
#SIMPLE LINEAR REGRESSION
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
dataset = pd.read_csv(r'C:\Users\yogay\OneDrive\Desktop\Yogita_Yadav\Data Science\2nd\SLR -
space=dataset['sqft_living']
price=dataset['price']
x = np.array(space).reshape(-1, 1)
Name
Type
Size
Value
ytrain
Array of float64
(14408,)
[465750. 575
ytest
Array of float64
(7205,)
[297000. 15
y
Array of float64
(21613,)
[221900. 538
xtrain
Array of int64
(14408, 1)
[[1260]
[1320]
xtest
Array of int64
(7205, 1)
[[1430]
xtest - NumPy object array
xtrain - NumPy object array
ytrain - NumPy object array
ytest - NumPy object array
Format
Resize
Background color
Type here to search
20°C
ENG
00:25
03-11-2023


Spyder (Python 3.10)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\yogay
C:\Users\yogay\untitled0.py
temp.py
untitled0.py*
#SIMPLE LINEAR REGRESSION
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
dataset = pd.read_csv(r'C:\Users\yogay\OneDrive\Desktop\Yogita_Yadav\Data Science\2nd\SLR - I
space=dataset['sqft_living']
price=dataset['price']
x = np.array(space).reshape(-1, 1)
y = np.array(price)
from sklearn.model_selection import train_test_split
xtrain, xtest, ytrain, ytest = train_test_split(x,y,test_size=1/3, random_state=0)
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(xtrain, ytrain)
pred = regressor.predict(xtest)
plt.scatter(xtrain, ytrain, color= 'green')
plt.plot(xtrain, regressor.predict(xtrain), color = 'yellow')
plt.title ("Visuals for Training Dataset")
plt.xlabel("Space")
plt.ylabel("Price")
plt.show()
169 %
Visuals for Training Dataset
1e6
Price
Space
0
1
2
3
4
5
0
2000
4000
6000
8000
10000
12000
14000
Variable Explorer
Help
Plots
Files
Console 1/A
...: plt.show()
IPython Console
History
conda: base (Python 3.10.9)
Completions: conda
LSP: Python
Line 28, Col 11
UTF-8
CRLF
RW
Type here to search
20°C
ENG
00:28
03-11-2023


File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\yogay
C:\Users\yogay\untitled0.py
temp.py
untitled0.py*
import matplotlib.pyplot as plt
dataset = pd.read_csv(r'C:\Users\yogay\OneDrive\Desktop\Yogita_Yadav\Data Science\2nd\SLR -
space=dataset['sqft_living']
price=dataset['price']
x = np.array(space).reshape(-1, 1)
y = np.array(price)
from sklearn.model_selection import train_test_split
xtrain, xtest, ytrain, ytest = train_test_split(x,y,test_size=1/3, random_state=0)
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regressor = LinearRegression()
regressor.fit(xtrain, ytrain)
pred = regressor.predict(xtest)
plt.scatter(xtrain, ytrain, color= 'green')
plt.plot(xtrain, regressor.predict(xtrain), color = 'yellow')
plt.title ("Visuals for Training Dataset")
plt.xlabel("Space")
plt.ylabel("Price")
plt.show()
plt.scatter(xtest, ytest, color= 'red')
plt.plot(xtrain, regressor.predict(xtrain), color = 'blue')
plt.title("Visuals for Test DataSet")
plt.xlabel("Space")
plt.ylabel("Price")
plt.show()
156 %
Visuals for Test DataSet
1e6
Price
Space
Variable Explorer
Help
Plots
Files
Console 1/A
In [11]: plt.scatter(xtest, ytest, color= 'red')
...: plt.plot(xtrain, regressor.predict(xtrain), color = 'blue'
...: plt.title("Visuals for Test DataSet")
...: plt.xlabel("Space")
...: plt.ylabel("Price")
...: plt.show()
In [12]:
IPython Console
History
conda: base (Python 3.10.9)
Completions: conda
LSP: Python
Line 32, Col 38
UTF-8
CRLF
RW
Mem 72