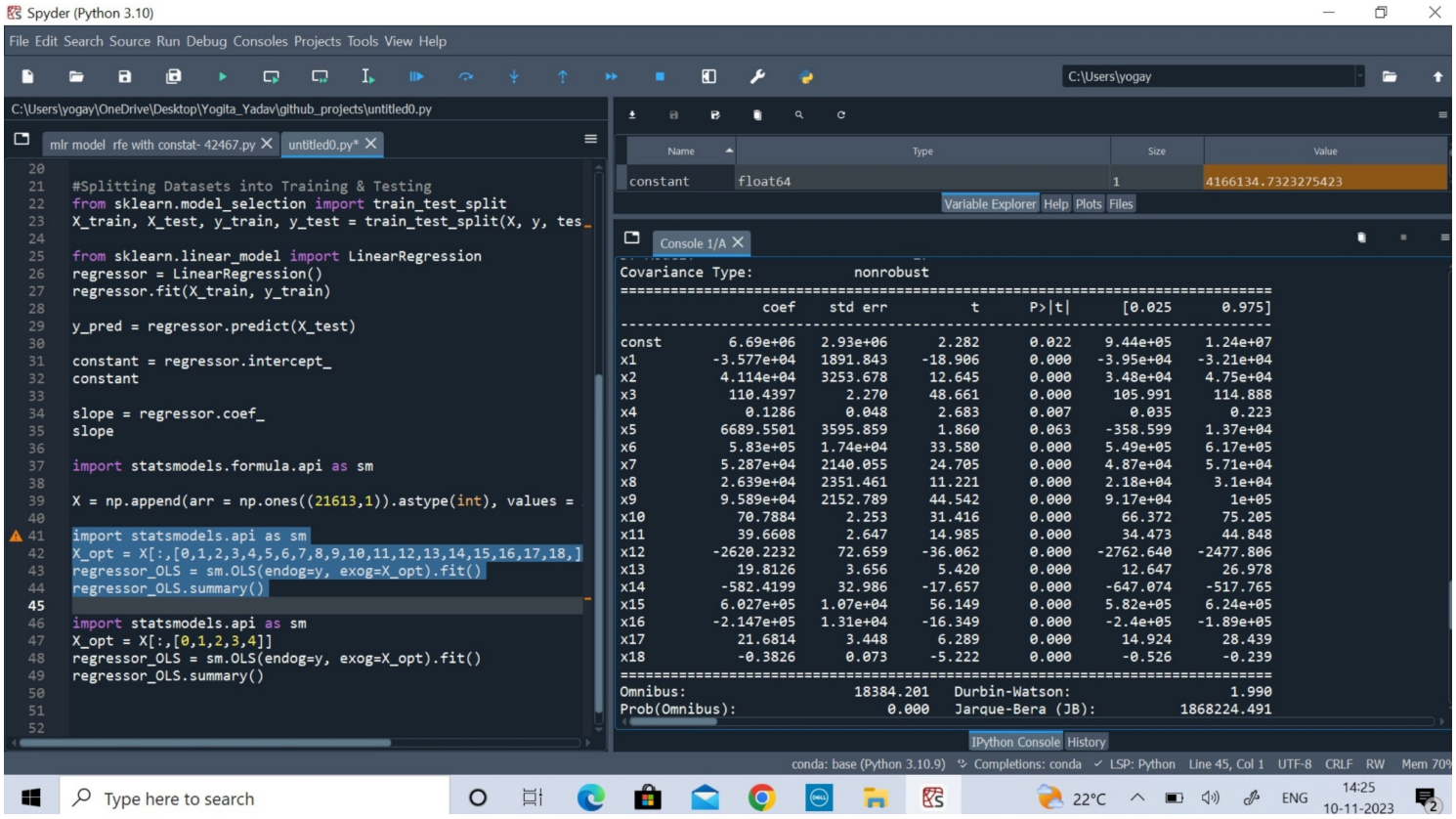
Spyder (Python 3.10)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\yogay
C:\Users\yogay\OneDrive\Desktop\Yogita_Yadav\github_projects\untitled0.py
mlr model rfe with constat- 42467.py
untitled0.py*
#Splitting Datasets into Training & Testing
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, tes
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X_train, y_train)
y_pred = regressor.predict(X_test)
constant = regressor.intercept_
constant
slope = regressor.coef_
slope
import statsmodels.formula.api as sm
X = np.append(arr = np.ones((21613,1)).astype(int), values =
import statsmodels.api as sm
X_opt = X[:,[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,]
regressor_OLS = sm.OLS(endog=y, exog=X_opt).fit()
regressor_OLS.summary()
import statsmodels.api as sm
X_opt = X[:,[0,1,2,3,4]]
regressor_OLS = sm.OLS(endog=y, exog=X_opt).fit()
regressor_OLS.summary()
Name
Type
Size
Value
constant
float64
1
4166134.7323275423
Variable Explorer
Help
Plots
Files
Console 1/A
Covariance Type: nonrobust
coef std err t P>|t| [0.025 0.975]
const 6.69e+06 2.93e+06 2.282 0.022 9.44e+05 1.24e+07
x1 -3.577e+04 1891.843 -18.906 0.000 -3.95e+04 -3.21e+04
x2 4.114e+04 3253.678 12.645 0.000 3.48e+04 4.75e+04
x3 110.4397 2.270 48.661 0.000 105.991 114.888
x4 0.1286 0.048 2.683 0.007 0.035 0.223
x5 6689.5501 3595.859 1.860 0.063 -358.599 1.37e+04
x6 5.83e+05 1.74e+04 33.580 0.000 5.49e+05 6.17e+05
x7 5.287e+04 2140.055 24.705 0.000 4.87e+04 5.71e+04
x8 2.639e+04 2351.461 11.221 0.000 2.18e+04 3.1e+04
x9 9.589e+04 2152.789 44.542 0.000 9.17e+04 1e+05
x10 70.7884 2.253 31.416 0.000 66.372 75.205
x11 39.6608 2.647 14.985 0.000 34.473 44.848
x12 -2620.2232 72.659 -36.062 0.000 -2762.640 -2477.806
x13 19.8126 3.656 5.420 0.000 12.647 26.978
x14 -582.4199 32.986 -17.657 0.000 -647.074 -517.765
x15 6.027e+05 1.07e+04 56.149 0.000 5.82e+05 6.24e+05
x16 -2.147e+05 1.31e+04 -16.349 0.000 -2.4e+05 -1.89e+05
x17 21.6814 3.448 6.289 0.000 14.924 28.439
x18 -0.3826 0.073 -5.222 0.000 -0.526 -0.239
Omnibus: 18384.201 Durbin-Watson: 1.990
Prob(Omnibus): 0.000 Jarque-Bera (JB): 1868224.491
IPython Console
History
conda: base (Python 3.10.9) Completions: conda LSP: Python Line 45, Col 1 UTF-8 CRLF RW Mem 70%
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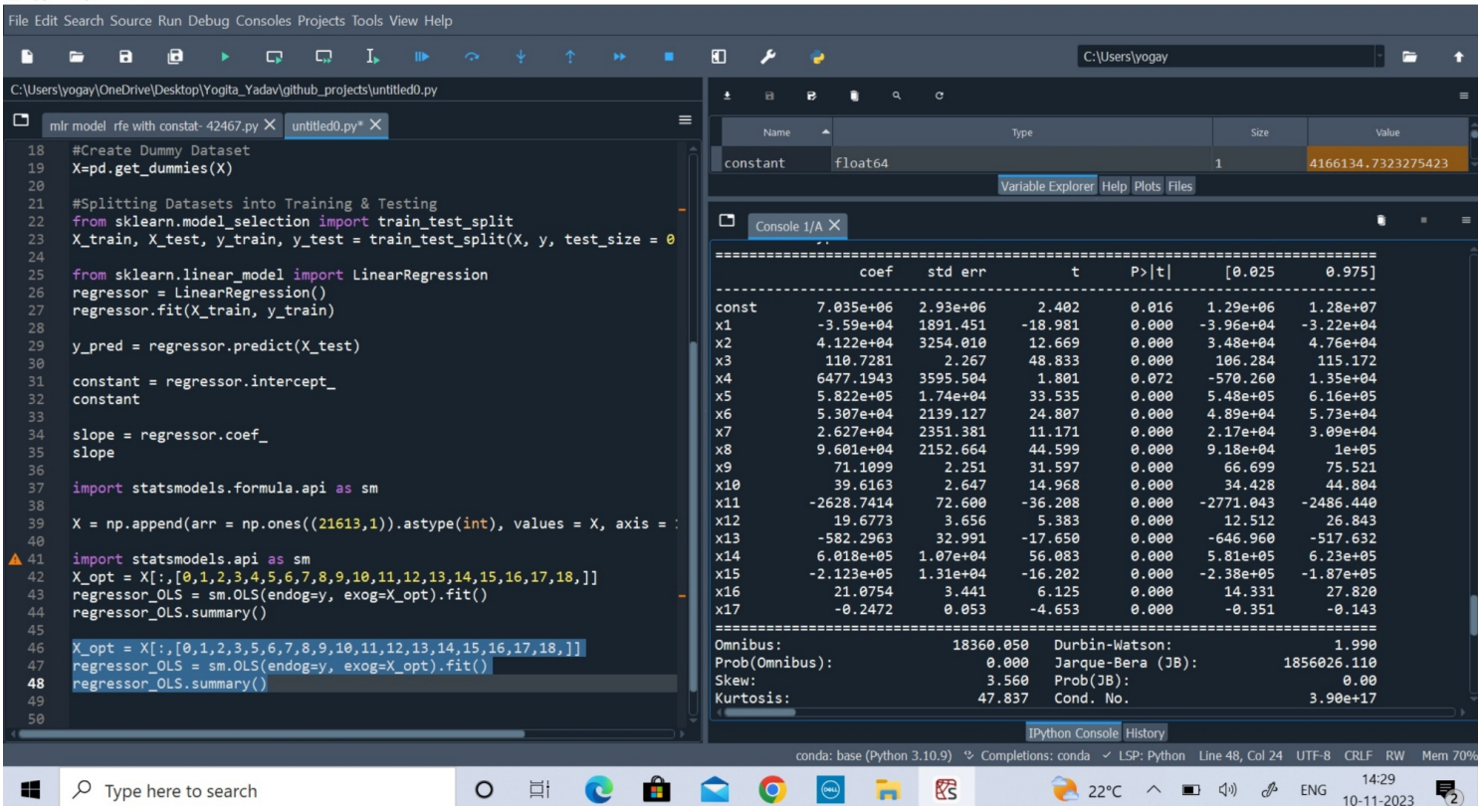
ENG
14:25
10-11-2023


File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\yogay
C:\Users\yogay\OneDrive\Desktop\Yogita_Yadav\github_projects\untitled0.py
mlr model rfe with constat- 42467.py
untitled0.py*
#Create Dummy Dataset
X=pd.get_dummies(X)
#Splitting Datasets into Training & Testing
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(X_train, y_train)
y_pred = regressor.predict(X_test)
constant = regressor.intercept_
constant
slope = regressor.coef_
slope
import statsmodels.formula.api as sm
X = np.append(arr = np.ones((21613,1)).astype(int), values = X, axis =
import statsmodels.api as sm
X_opt = X[:,[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,]]
regressor_OLS = sm.OLS(endog=y, exog=X_opt).fit()
regressor_OLS.summary()
X_opt = X[:,[0,1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,]]
regressor_OLS = sm.OLS(endog=y, exog=X_opt).fit()
regressor_OLS.summary()
Name
Type
Size
Value
constant
float64
1
4166134.7323275423
Variable Explorer
Help
Plots
Files
Console 1/A
coef std err t P>|t| [0.025 0.975]
const 7.035e+06 2.93e+06 2.402 0.016 1.29e+06 1.28e+07
x1 -3.59e+04 1891.451 -18.981 0.000 -3.96e+04 -3.22e+04
x2 4.122e+04 3254.010 12.669 0.000 3.48e+04 4.76e+04
x3 110.7281 2.267 48.833 0.000 106.284 115.172
x4 6477.1943 3595.504 1.801 0.072 -570.260 1.35e+04
x5 5.822e+05 1.74e+04 33.535 0.000 5.48e+05 6.16e+05
x6 5.307e+04 2139.127 24.807 0.000 4.89e+04 5.73e+04
x7 2.627e+04 2351.381 11.171 0.000 2.17e+04 3.09e+04
x8 9.601e+04 2152.664 44.599 0.000 9.18e+04 1e+05
x9 71.1099 2.251 31.597 0.000 66.699 75.521
x10 39.6163 2.647 14.968 0.000 34.428 44.804
x11 -2628.7414 72.600 -36.208 0.000 -2771.043 -2486.440
x12 19.6773 3.656 5.383 0.000 12.512 26.843
x13 -582.2963 32.991 -17.650 0.000 -646.960 -517.632
x14 6.018e+05 1.07e+04 56.083 0.000 5.81e+05 6.23e+05
x15 -2.123e+05 1.31e+04 -16.202 0.000 -2.38e+05 -1.87e+05
x16 21.0754 3.441 6.125 0.000 14.331 27.820
x17 -0.2472 0.053 -4.653 0.000 -0.351 -0.143
Omnibus: 18360.050 Durbin-Watson: 1.990
Prob(Omnibus): 0.000 Jarque-Bera (JB): 1856026.110
Skew: 3.560 Prob(JB): 0.00
Kurtosis: 47.837 Cond. No. 3.90e+17
IPython Console
History
conda: base (Python 3.10.9)
Completions: conda
LSP: Python
Line 48, Col 24
UTF-8
CRLF
RW
Mem 70%
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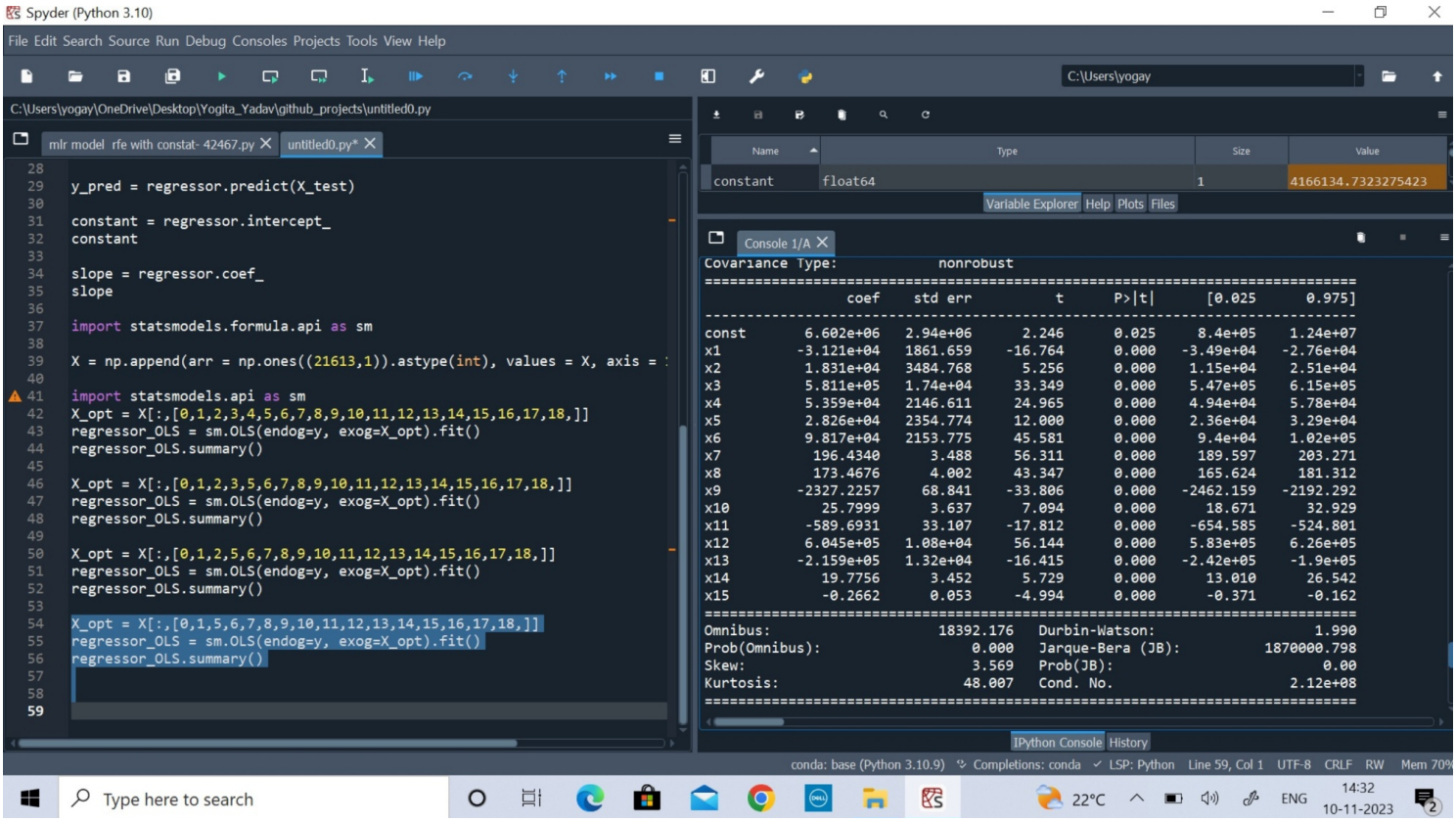
ENG
14:29
10-11-2023


Spyder (Python 3.10)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\yogay\OneDrive\Desktop\Yogita_Yadav\github_projects\untitled0.py
mlr model rfe with constat- 42467.py
untitled0.py*
y_pred = regressor.predict(X_test)
constant = regressor.intercept_
constant
slope = regressor.coef_
slope
import statsmodels.formula.api as sm
X = np.append(arr = np.ones((21613,1)).astype(int), values = X, axis =
import statsmodels.api as sm
X_opt = X[:,[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,]]
regressor_OLS = sm.OLS(endog=y, exog=X_opt).fit()
regressor_OLS.summary()
X_opt = X[:,[0,1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,]]
regressor_OLS = sm.OLS(endog=y, exog=X_opt).fit()
regressor_OLS.summary()
X_opt = X[:,[0,1,2,5,6,7,8,9,10,11,12,13,14,15,16,17,18,]]
regressor_OLS = sm.OLS(endog=y, exog=X_opt).fit()
regressor_OLS.summary()
X_opt = X[:,[0,1,5,6,7,8,9,10,11,12,13,14,15,16,17,18,]]
regressor_OLS = sm.OLS(endog=y, exog=X_opt).fit()
regressor_OLS.summary()
C:\Users\yogay
Name Type Size Value
constant float64 1 4166134.7323275423
Variable Explorer Help Plots Files
Console 1/A
Covariance Type: nonrobust
coef std err t P>|t| [0.025 0.975]
const 6.602e+06 2.94e+06 2.246 0.025 8.4e+05 1.24e+07
x1 -3.121e+04 1861.659 -16.764 0.000 -3.49e+04 -2.76e+04
x2 1.831e+04 3484.768 5.256 0.000 1.15e+04 2.51e+04
x3 5.811e+05 1.74e+04 33.349 0.000 5.47e+05 6.15e+05
x4 5.359e+04 2146.611 24.965 0.000 4.94e+04 5.78e+04
x5 2.826e+04 2354.774 12.000 0.000 2.36e+04 3.29e+04
x6 9.817e+04 2153.775 45.581 0.000 9.4e+04 1.02e+05
x7 196.4340 3.488 56.311 0.000 189.597 203.271
x8 173.4676 4.002 43.347 0.000 165.624 181.312
x9 -2327.2257 68.841 -33.806 0.000 -2462.159 -2192.292
x10 25.7999 3.637 7.094 0.000 18.671 32.929
x11 -589.6931 33.107 -17.812 0.000 -654.585 -524.801
x12 6.045e+05 1.08e+04 56.144 0.000 5.83e+05 6.26e+05
x13 -2.159e+05 1.32e+04 -16.415 0.000 -2.42e+05 -1.9e+05
x14 19.7756 3.452 5.729 0.000 13.010 26.542
x15 -0.2662 0.053 -4.994 0.000 -0.371 -0.162
Omnibus: 18392.176 Durbin-Watson: 1.990
Prob(Omnibus): 0.000 Jarque-Bera (JB): 1870000.798
Skew: 3.569 Prob(JB): 0.00
Kurtosis: 48.007 Cond. No. 2.12e+08
IPython Console History
conda: base (Python 3.10.9) Completions: conda LSP: Python Line 59, Col 1 UTF-8 CRLF RW Mem 70%
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10-11-2023