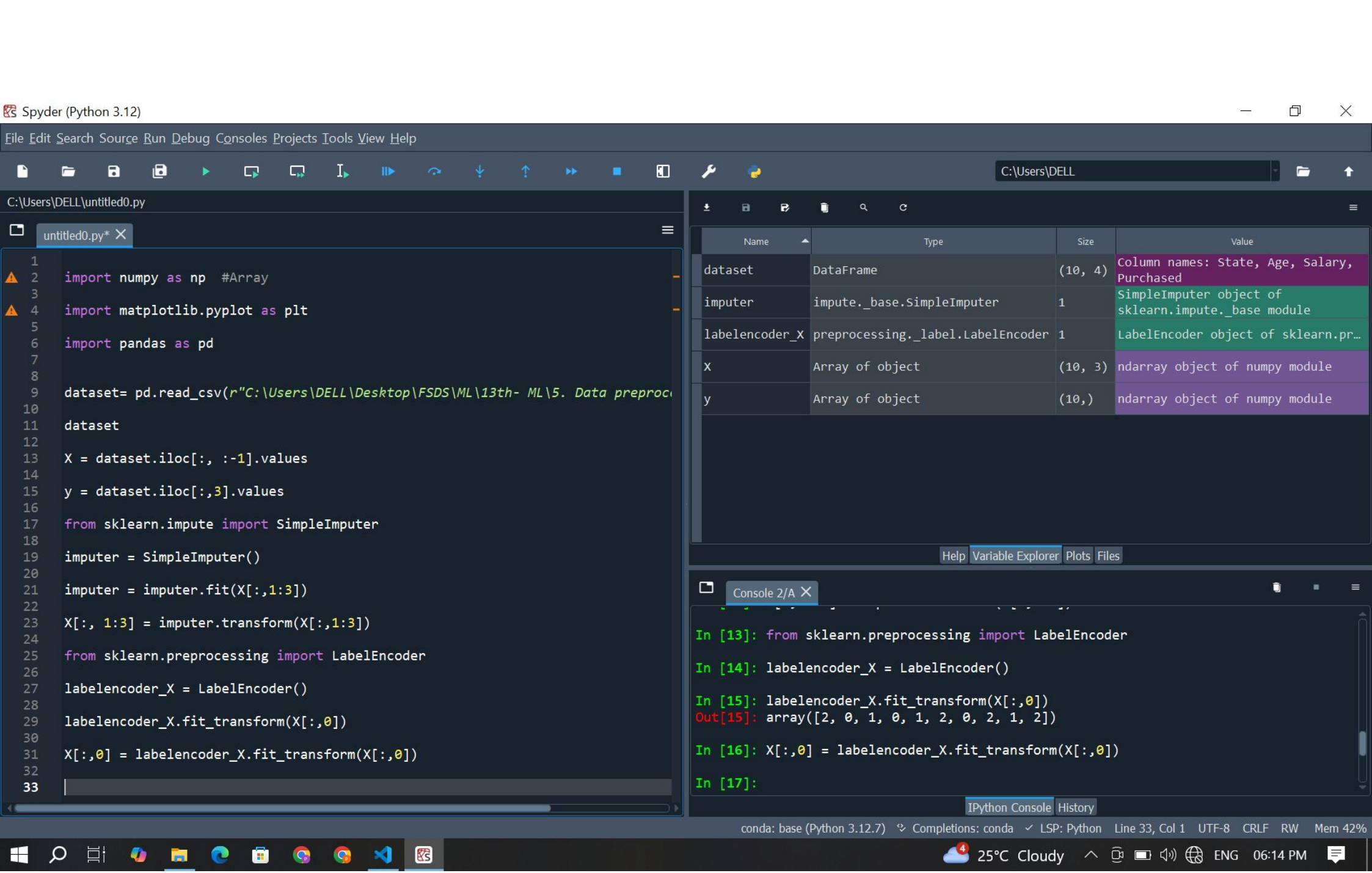
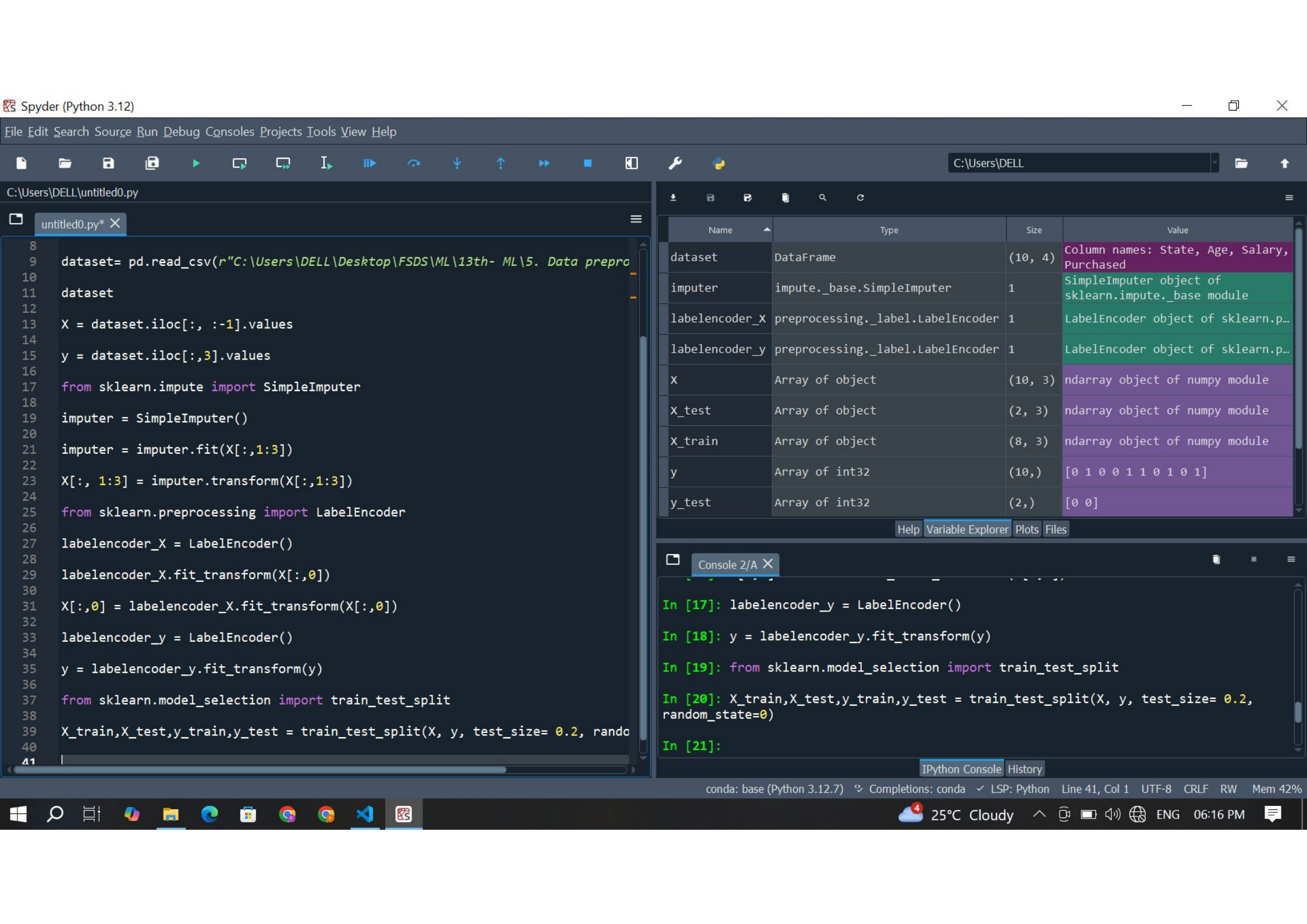

Spyder (Python 3.12)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\DELL
C:\Users\DELL\untitled0.py
untitled0.py*
1 import numpy as np #Array
2 import matplotlib.pyplot as plt
3 import pandas as pd
4
5 dataset= pd.read_csv(r"C:\Users\DELL\Desktop\FSDS\ML\13th- ML\5. Data preproc
6 dataset
7 X = dataset.iloc[:, :-1].values
8 y = dataset.iloc[:,3].values
9 from sklearn.impute import SimpleImputer
10 imputer = SimpleImputer()
11 imputer = imputer.fit(X[:,1:3])
12 X[:, 1:3] = imputer.transform(X[:,1:3])
13 from sklearn.preprocessing import LabelEncoder
14 labelencoder_X = LabelEncoder()
15 labelencoder_X.fit_transform(X[:,0])
16 X[:,0] = labelencoder_X.fit_transform(X[:,0])
17
Name Type Size Value
dataset DataFrame (10, 4) Column names: State, Age, Salary, Purchased
imputer impute._base.SimpleImputer 1 SimpleImputer object of sklearn.impute._base module
labelencoder_X preprocessing._label.LabelEncoder 1 LabelEncoder object of sklearn.pr…
X Array of object (10, 3) ndarray object of numpy module
y Array of object (10,) ndarray object of numpy module
Help Variable Explorer Plots Files
Console 2/A
In [13]: from sklearn.preprocessing import LabelEncoder
In [14]: labelencoder_X = LabelEncoder()
In [15]: labelencoder_X.fit_transform(X[:,0])
Out[15]: array([2, 0, 1, 0, 1, 2, 0, 2, 1, 2])
In [16]: X[:,0] = labelencoder_X.fit_transform(X[:,0])
In [17]:
IPython Console History
conda: base (Python 3.12.7) Completions: conda LSP: Python Line 33, Col 1 UTF-8 CRLF RW Mem 42%
25°C Cloudy
ENG
06:14 PM


Spyder (Python 3.12)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\DELL
C:\Users\DELL\untitled0.py
untitled0.py*
dataset= pd.read_csv(r"C:\Users\DELL\Desktop\FSDS\ML\13th- ML\5. Data prepro
dataset
X = dataset.iloc[:, :-1].values
y = dataset.iloc[:,3].values
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imputer = SimpleImputer()
imputer = imputer.fit(X[:,1:3])
X[:, 1:3] = imputer.transform(X[:,1:3])
from sklearn.preprocessing import LabelEncoder
labelencoder_X = LabelEncoder()
labelencoder_X.fit_transform(X[:,0])
X[:,0] = labelencoder_X.fit_transform(X[:,0])
labelencoder_y = LabelEncoder()
y = labelencoder_y.fit_transform(y)
from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test = train_test_split(X, y, test_size= 0.2, rando
Name
Type
Size
Value
dataset
DataFrame
(10, 4)
Column names: State, Age, Salary, Purchased
imputer
impute._base.SimpleImputer
1
SimpleImputer object of sklearn.impute._base module
labelencoder_X
preprocessing._label.LabelEncoder
1
LabelEncoder object of sklearn.p…
labelencoder_y
preprocessing._label.LabelEncoder
1
LabelEncoder object of sklearn.p…
X
Array of object
(10, 3)
ndarray object of numpy module
X_test
Array of object
(2, 3)
ndarray object of numpy module
X_train
Array of object
(8, 3)
ndarray object of numpy module
y
Array of int32
(10,)
[0 1 0 0 1 1 0 1 0 1]
y_test
Array of int32
(2,)
[0 0]
Help
Variable Explorer
Plots
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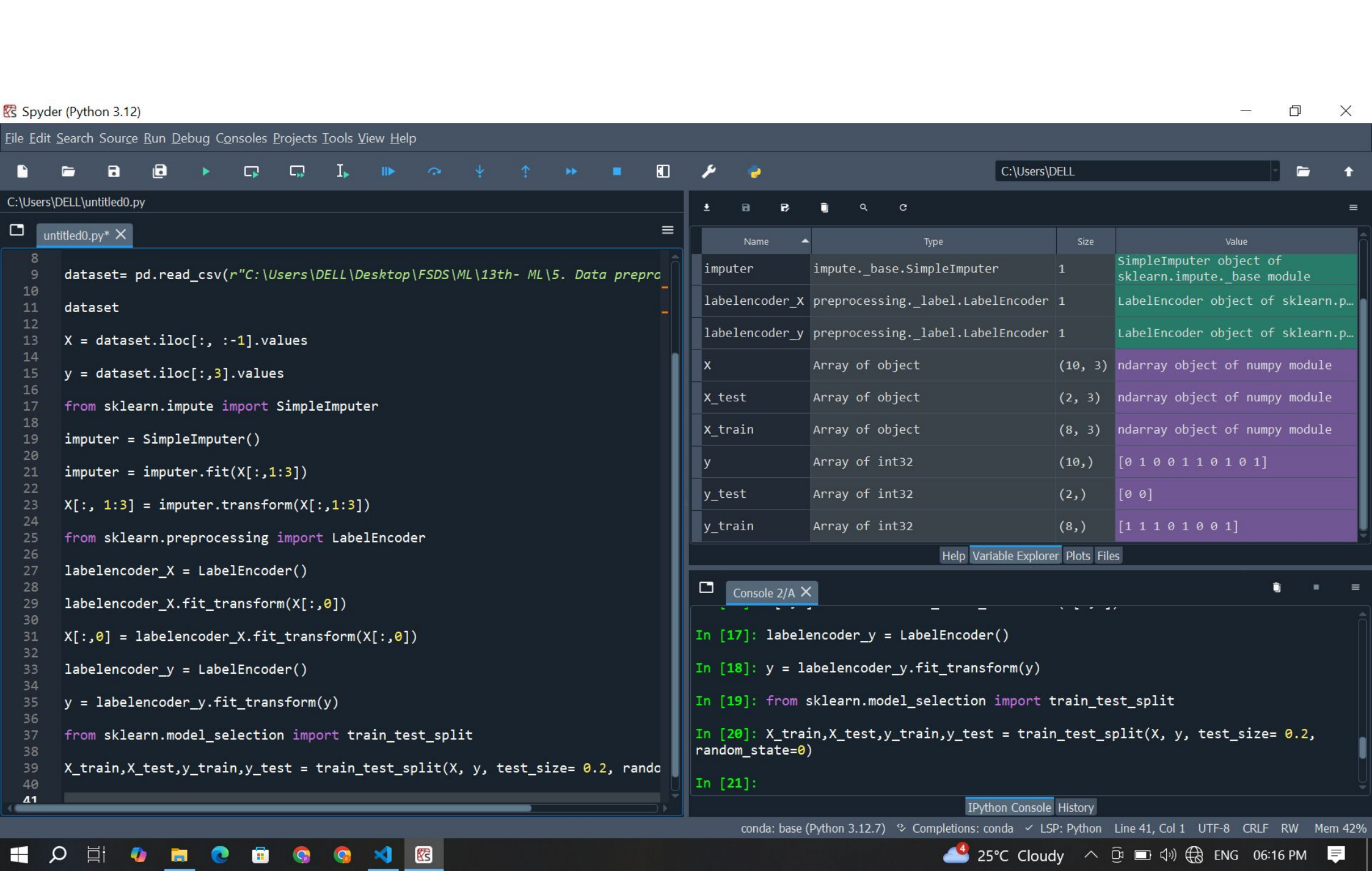
Console 2/A
In [17]: labelencoder_y = LabelEncoder()
In [18]: y = labelencoder_y.fit_transform(y)
In [19]: from sklearn.model_selection import train_test_split
In [20]: X_train,X_test,y_train,y_test = train_test_split(X, y, test_size= 0.2, random_state=0)
In [21]:
IPython Console
History
conda: base (Python 3.12.7)
Completions: conda
LSP: Python
Line 41, Col 1
UTF-8
CRLF
RW
Mem 42%
25°C Cloudy
ENG
06:16 PM


Spyder (Python 3.12)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\DELL
C:\Users\DELL\untitled0.py
untitled0.py*
dataset= pd.read_csv(r"C:\Users\DELL\Desktop\FSDS\ML\13th- ML\5. Data prepro
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y = dataset.iloc[:,3].values
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labelencoder_X.fit_transform(X[:,0])
X[:,0] = labelencoder_X.fit_transform(X[:,0])
labelencoder_y = LabelEncoder()
y = labelencoder_y.fit_transform(y)
from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test = train_test_split(X, y, test_size= 0.2, rando
Name
Type
Size
Value
imputer
impute._base.SimpleImputer
1
SimpleImputer object of sklearn.impute._base module
labelencoder_X
preprocessing._label.LabelEncoder
1
LabelEncoder object of sklearn.p…
labelencoder_y
preprocessing._label.LabelEncoder
1
LabelEncoder object of sklearn.p…
X
Array of object
(10, 3)
ndarray object of numpy module
X_test
Array of object
(2, 3)
ndarray object of numpy module
X_train
Array of object
(8, 3)
ndarray object of numpy module
y
Array of int32
(10,)
[0 1 0 0 1 1 0 1 0 1]
y_test
Array of int32
(2,)
[0 0]
y_train
Array of int32
(8,)
[1 1 1 0 1 0 0 1]
Help
Variable Explorer
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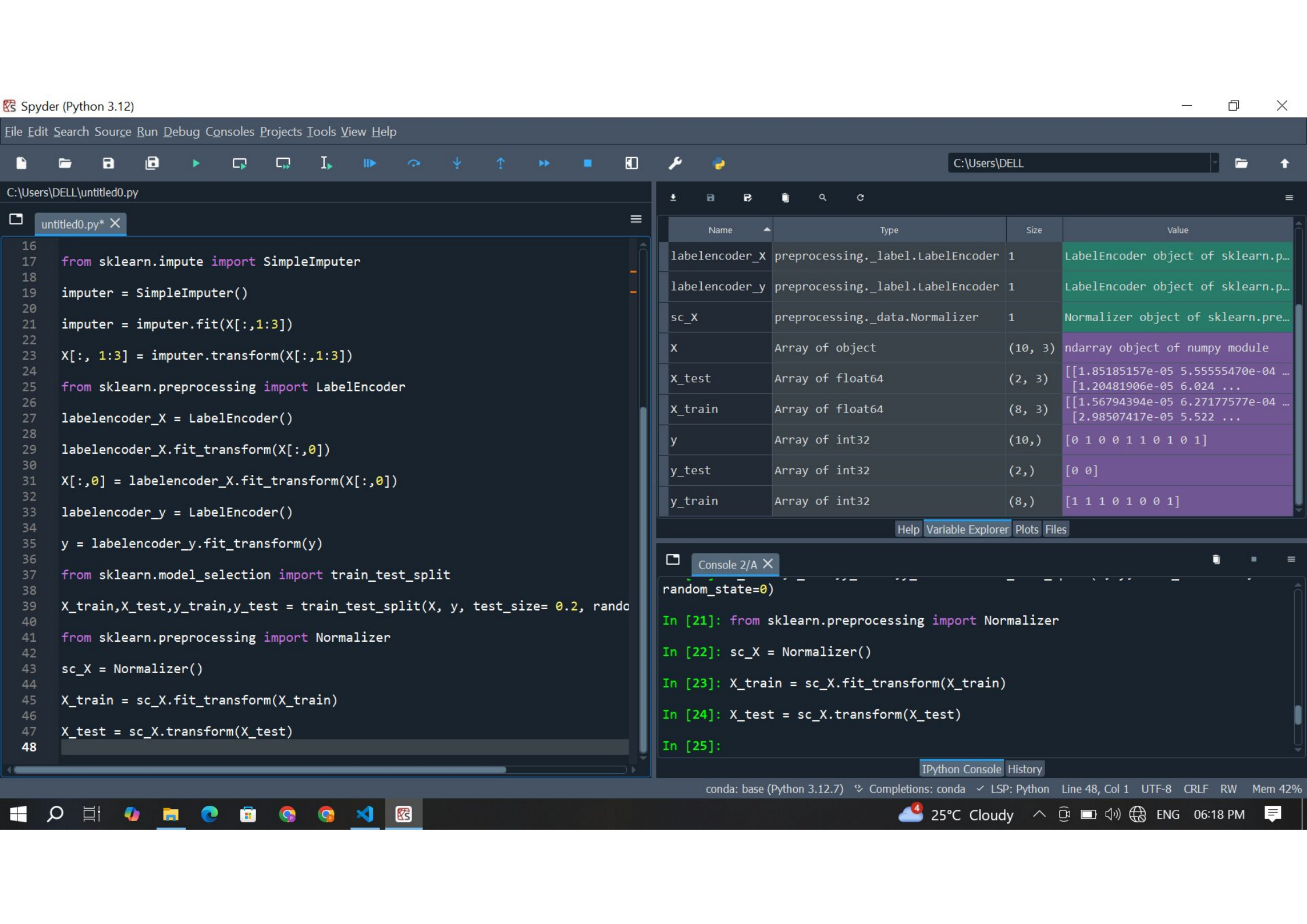
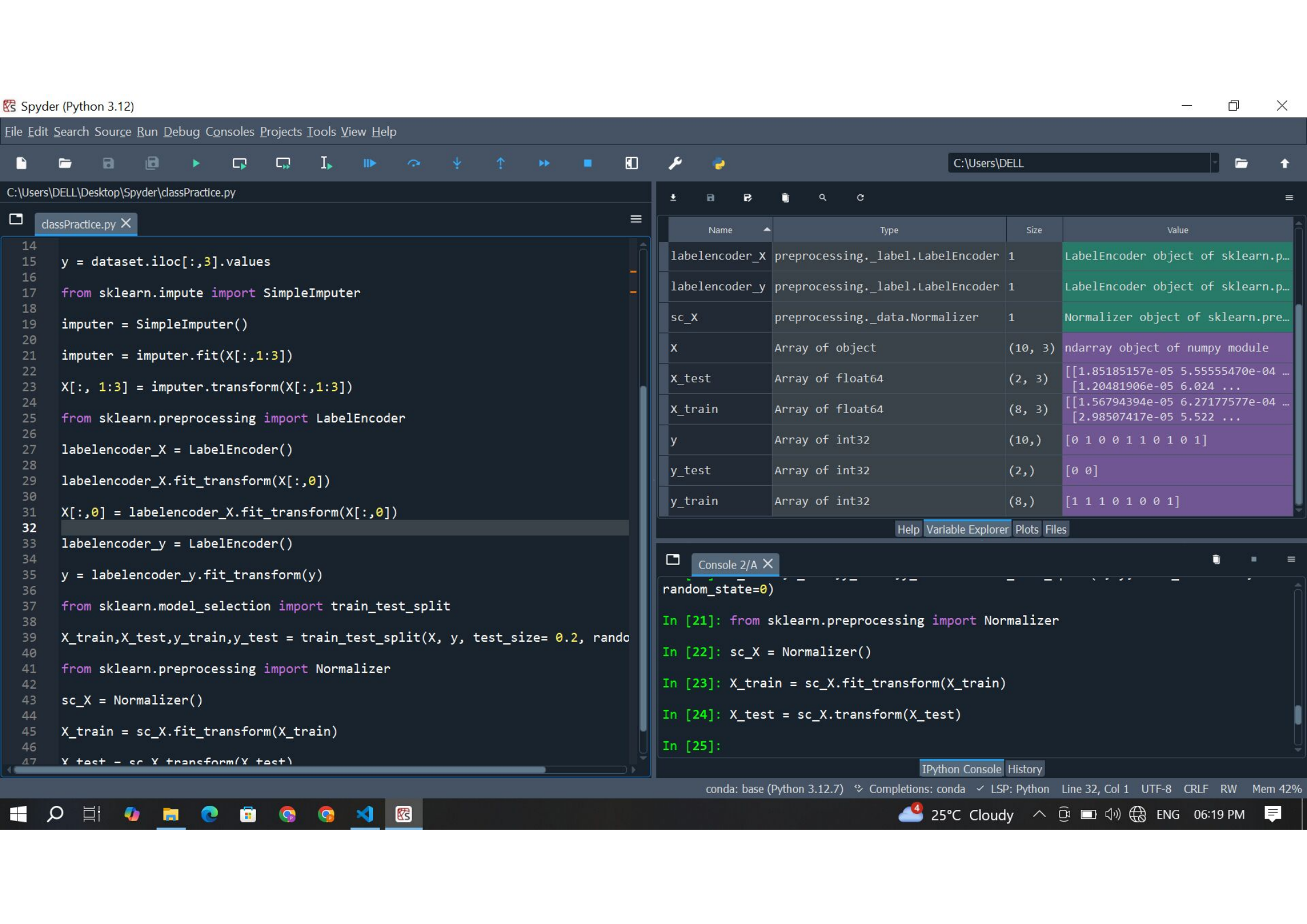
Console 2/A
In [17]: labelencoder_y = LabelEncoder()
In [18]: y = labelencoder_y.fit_transform(y)
In [19]: from sklearn.model_selection import train_test_split
In [20]: X_train,X_test,y_train,y_test = train_test_split(X, y, test_size= 0.2, random_state=0)
In [21]:
IPython Console
History
conda: base (Python 3.12.7)
Completions: conda
LSP: Python
Line 41, Col 1
UTF-8
CRLF
RW
Mem 42%
25°C Cloudy
ENG
06:16 PM


Spyder (Python 3.12)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\DELL
C:\Users\DELL\untitled0.py
untitled0.py*
16
17 from sklearn.impute import SimpleImputer
18
19 imputer = SimpleImputer()
20
21 imputer = imputer.fit(X[:,1:3])
22
23 X[:, 1:3] = imputer.transform(X[:,1:3])
24
25 from sklearn.preprocessing import LabelEncoder
26
27 labelencoder_X = LabelEncoder()
28
29 labelencoder_X.fit_transform(X[:,0])
30
31 X[:,0] = labelencoder_X.fit_transform(X[:,0])
32
33 labelencoder_y = LabelEncoder()
34
35 y = labelencoder_y.fit_transform(y)
36
37 from sklearn.model_selection import train_test_split
38
39 X_train,X_test,y_train,y_test = train_test_split(X, y, test_size= 0.2, rando
40
41 from sklearn.preprocessing import Normalizer
42
43 sc_X = Normalizer()
44
45 X_train = sc_X.fit_transform(X_train)
46
47 X_test = sc_X.transform(X_test)
48
Name
Type
Size
Value
labelencoder_X
preprocessing._label.LabelEncoder
1
LabelEncoder object of sklearn.p…
labelencoder_y
preprocessing._label.LabelEncoder
1
LabelEncoder object of sklearn.p…
sc_X
preprocessing._data.Normalizer
1
Normalizer object of sklearn.pre…
X
Array of object
(10, 3)
ndarray object of numpy module
X_test
Array of float64
(2, 3)
[[1.85185157e-05 5.55555470e-04 …
[1.20481906e-05 6.024 ...
X_train
Array of float64
(8, 3)
[[1.56794394e-05 6.27177577e-04 …
[2.98507417e-05 5.522 ...
y
Array of int32
(10,)
[0 1 0 0 1 1 0 1 0 1]
y_test
Array of int32
(2,)
[0 0]
y_train
Array of int32
(8,)
[1 1 1 0 1 0 0 1]
Help
Variable Explorer
Plots
Files
Console 2/A
random_state=0)
In [21]: from sklearn.preprocessing import Normalizer
In [22]: sc_X = Normalizer()
In [23]: X_train = sc_X.fit_transform(X_train)
In [24]: X_test = sc_X.transform(X_test)
In [25]:
IPython Console
History
conda: base (Python 3.12.7)
Completions: conda
LSP: Python
Line 48, Col 1
UTF-8
CRLF
RW
Mem 42%
25°C Cloudy
ENG
06:18 PM


Spyder (Python 3.12)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\DELL
C:\Users\DELL\Desktop\Spyder\classPractice.py
classPractice.py
14
15 y = dataset.iloc[:,3].values
16
17 from sklearn.impute import SimpleImputer
18
19 imputer = SimpleImputer()
20
21 imputer = imputer.fit(X[:,1:3])
22
23 X[:, 1:3] = imputer.transform(X[:,1:3])
24
25 from sklearn.preprocessing import LabelEncoder
26
27 labelencoder_X = LabelEncoder()
28
29 labelencoder_X.fit_transform(X[:,0])
30
31 X[:,0] = labelencoder_X.fit_transform(X[:,0])
32
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37 from sklearn.model_selection import train_test_split
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39 X_train,X_test,y_train,y_test = train_test_split(X, y, test_size= 0.2, rando
40
41 from sklearn.preprocessing import Normalizer
42
43 sc_X = Normalizer()
44
45 X_train = sc_X.fit_transform(X_train)
46
47 X_test = sc_X.transform(X_test)
Name
Type
Size
Value
labelencoder_X
preprocessing._label.LabelEncoder
1
LabelEncoder object of sklearn.p…
labelencoder_y
preprocessing._label.LabelEncoder
1
LabelEncoder object of sklearn.p…
sc_X
preprocessing._data.Normalizer
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Normalizer object of sklearn.pre…
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ndarray object of numpy module
X_test
Array of float64
(2, 3)
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[1.20481906e-05 6.024 ...
X_train
Array of float64
(8, 3)
[[1.56794394e-05 6.27177577e-04 …
[2.98507417e-05 5.522 ...
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Array of int32
(10,)
[0 1 0 0 1 1 0 1 0 1]
y_test
Array of int32
(2,)
[0 0]
y_train
Array of int32
(8,)
[1 1 1 0 1 0 0 1]
Help
Variable Explorer
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Console 2/A
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In [24]: X_test = sc_X.transform(X_test)
In [25]:
IPython Console
History
conda: base (Python 3.12.7)
Completions: conda
LSP: Python
Line 32, Col 1
UTF-8
CRLF
RW
Mem 42%
25°C Cloudy
ENG
06:19 PM