

ImportError: cannot import name cross_validation

Asked 2 years, 9 months ago Active 2 months ago Viewed 15k times



I cannot import the cross_validation from sklearn library; I use sklearn version 0.20.0

12

```
from sklearn import cross_validation
```



later in the code:



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```
features_train, features_test, labels_train, labels_test =  
cross_validation.train_test_split(word_data, authors, test_size=0.1, random_state=42)
```



Error:

```
Traceback (most recent call last):  
  File "D:\me\M.Sc\Udacity_ML_course\ud120-projects-  
master\naive_bayes\nb_author_id.py", line 16, in <module>  
    from email_preprocess import preprocess  
  File "../tools/email_preprocess.py", line 8, in <module>  
    from sklearn import cross_validation  
ImportError: cannot import name cross_validation
```

python scikit-learn

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edited Oct 26 '18 at 16:05

asked Oct 26 '18 at 15:15



mnabil

598 1 3 13

Post the code you're trying please, and the full traceback of the error – [G. Anderson](#) Oct 26 '18 at 15:21

Are you thinking of [cross_val_score](#) ? – [wbadart](#) Oct 26 '18 at 16:05

4 Answers

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This happens because there is no `cross_validation` object in `sklearn`. You're likely looking for something more like the `cross_validate` function. You can access that through

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```
from sklearn.model_selection import cross_validate
```



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```
from sklearn.model_selection import train_test_split
```

followed by

```
features_train, features_test, labels_train, labels_test = train_test_split(word_data,
authors, test_size=0.1, random_state=42)
```

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answered Oct 26 '18 at 16:14



jwil

449

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`cross_validation` used to exist as a Scikit package*, but was deprecated at some point.

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If you're looking for `train_test_split` as your code indicates, it's in `model_selection`:



```
from sklearn import model_selection
```



```
features_train, features_test, labels_train, labels_test =
model_selection.train_test_split(
    word_data, authors, test_size=0.1, random_state=42)
```

*Looks like this changed in [0.18](#).

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answered Oct 26 '18 at 16:11



Brad Solomon

30.3k

21

107

182



In my case, I was using some files from a Udacity course, which used an **older version of sklearn**. Instead of spending unnecessary time reformatting code usage to meet the latest versions of all their dependencies, it was easier to install the old version.

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This was possible because they provide a `requirements.txt` file.



```
python -m pip install -r requirements.txt
```

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answered Mar 12 '20 at 12:47



Ben Butterworth

7,697

2

33

54



In my case I was also trying to install an old version of sklearn which is required for mini projects for ['Intro to Machine Learning'](#) Udacity course



Unfortunately, @Ben B's method with `pip` didn't work for me. I had errors which look like errors in the [scipy github issue](#):

```
Installing collected packages: scipy  Running setup.py install for scipy ... error
Complete output from command "c:\program files\python\2.x\python.exe" -u -c "import
setuptools, tokenize;__file__='c:\\users\\reacodes\\appdata\\local\\temp\\pip-build-
jzv_lz\\scipy\\setup.py';exec(compile(getattr(tokenize, 'open', open)
(__file__).read().replace('\\r\\n', '\\n'), __file__, 'exec'))" install --record
c:\\users\\reacodes\\appdata\\local\\temp\\pip-mqeonc-record\\install-record.txt
--single-version-externally-managed --compile:
lapack_opt_info:
openblas_lapack_info:
  libraries openblas not found in ['c:\\program files\\python\\2.x\\lib', 'C:\\',
'c:\\program files\\python\\2.x\\libs']
  NOT AVAILABLE

lapack_mkl_info:
mkl_info:
  libraries mkl,vml,guide not found in ['c:\\program files\\python\\2.x\\lib',
'C:\\', 'c:\\program files\\python\\2.x\\libs']
  NOT AVAILABLE
...
```

So I tried another method with `conda` described in the following [answer](#):

```
conda install -c free scikit-learn=0.18.0
```

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edited Jun 17 '20 at 11:15

answered Jun 16 '20 at 22:08



da-sha1

566 3 7