Pyinstaller在构建exe文件时各种报错报错解决办法

问题描述

近期在使用pyinstaller构建exe可执行文件时, 经常会报以下错误:

```
🚰 C:\Users\朱君鹏\Desktop\Algorithms\GraphAlgorithms\undirected graph clustering algorithms\completed\spectral-clustering.exe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Traceback (most recent call last):

File "spectral-clustering.py", line 4, in \( \text{module} \)

from sklearn.cluster import KMeans

File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module exec(bytecode, module.__dict__)

File "site-packages\sklearn\cluster\_init__.py", line 6, in \( \text{module} \)

File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module exec(bytecode, module.__dict__)

File "site-packages\sklearn\manifold\__init__.py", line 9, in \( \text{module} \)

File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module exec(bytecode, module.__dict__)

File "site-packages\sklearn\manifold\t_sne.py", line 26, in \( \text{module} \)

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File "site-packages\sklearn\manifold\t_sne.py", line 26, in \( \text{module} \)

File "site-packages\sklearn\manifold\t_sne.py", line 55, in init sklearn.manifold._barnes_hut_tsne

ModuleNotFoundError: No module named 'sklearn.neighbors.quad_tree'

[14788] Failed to execute script spectral-clustering
        🚰 C:\Users\朱君鹏\Desktop\Algorithms\GraphAlgorithms\undirected graph clustering algorithms\completed\spectral-clustering.exe
          raceback (most recent call last):
    File "spectral-clustering.py", line 4, in <module>
        from sklearn.cluster import KMeans
    File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module
        exec(bytecode, module.__dict__)
    File "site-packages\sklearn\cluster\__init__.py", line 6, in <module>
    File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module
        exec(bytecode, module, __dict__)
                         exec(bytecode, module.__dict__)
          exec(bytecode, module.__dict__)
File "site-packages\sklearn\cluster\spectral.py", line 15, in \lambda module \rangle
File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module
exec(bytecode, module.__dict__)
File "site-packages\sklearn\metrics\__init__.py", line 36, in \lambda module \rangle
File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module
exec(bytecode, module.__dict__)
File "site-packages\sklearn\metrics\cluster\__init__.py", line 20, in \lambda module \rangle
File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module
exec(bytecode, module.__dict__)
File "site-packages\sklearn\metrics\cluster\unsupervised.py". line 16, in \lambda module \rangle
File "site-packages\sklearn\metrics\cluster\unsupervised.py".
       exec(bytecode, module.__dict__)

File "site-packages\sklearn\metrics\cluster\unsupervised.py", line 16, in \module\

File "c:\python37\lib\site-packages\PyInstaller\loader\pyimod03_importers.py", line 627, in exec_module

exec(bytecode, module.__dict__)

File "site-packages\sklearn\metrics\pairwise.py", line 32, in \module\tau

File "sklearn\metrics\pairwise_fast.pyx", line 1, in init sklearn.metrics.pairwise_fast

[oduleNotFoundError: No module named 'sklearn.utils_cython_blas'

9432] Failed to execute script spectral-clustering
       [9432] Failed to execute script spectral-clustering
```

这种问题比较奇怪,首先在Pycharm下执行.py文件发现源码没有任何错误,但是在构 建时报错缺少很多模块,本文将给出这种问题的解决办法。

解决方案

在使用Pyinstaller构建exe可执行文件时,使用如下命令:

```
1 pyinstaller -F ***.py # -F的F必须为大写
```

在这个过程中,会生成一个*.spec文件,打开该文件,内容如下:

```
1 # -*- mode: python; coding: utf-8 -*-
 2 block_cipher = None
 3 a = Analysis(['spectral-clustering.py'],
                 pathex=['C:\\Users\\朱君鹏\\Desktop\\Algorithms\\GraphAlgorithms\
 4
 5
                 binaries=[],
                 datas=[],
 6
 7
                 hiddenimports = [],
 8
                 hookspath=[],
 9
                 runtime_hooks=[],
                 excludes=[],
10
                 win_no_prefer_redirects=False,
11
                 win_private_assemblies=False,
12
                 cipher=block_cipher,
13
                 noarchive=False)
14
15 pyz = PYZ(a.pure, a.zipped_data,
                 cipher=block_cipher)
16
17 | exe = EXE(pyz,
18
             a.scripts,
19
             a.binaries,
             a.zipfiles,
20
              a.datas,
21
              [],
22
23
              name='spectral-clustering',
24
             debug=False,
              bootloader_ignore_signals=False,
25
26
              strip=False,
             upx=True,
27
28
              upx_exclude=[],
              runtime_tmpdir=None,
29
              console=True )
30
```

在上述文件中找到hiddenimports = [],解决方案只需要修改该文件中的hiddenimports 参数即可,将您缺少的模块文件写入到该文件中,如 <mark>hiddenimports =</mark>

```
['pandas._libs.tslibs.timedeltas','sklearn.neighbors.quad_tree',
'sklearn.tree', 'sklearn.tree._utils', 'sklearn.neighbors.typedefs',
'sklearn.utils._cython_blas'], 修改后的完整文件如下:
```

```
1 # -*- mode: python; coding: utf-8 -*-
 2
 3 block_cipher = None
 4
 5
  a = Analysis(['spectral-clustering.py'],
 6
 7
                 pathex=['C:\\Users\\朱君鹏\\Desktop\\Algorithms\\GraphAlgorithms\
                 binaries=[],
 8
                 datas=[],
 9
                 hiddenimports = ['pandas._libs.tslibs.timedeltas','sklearn.neight
10
                 hookspath=[],
11
                 runtime_hooks=[],
12
                 excludes=[],
13
                 win_no_prefer_redirects=False,
14
15
                 win_private_assemblies=False,
                 cipher=block_cipher,
16
                 noarchive=False)
17
18 pyz = PYZ(a.pure, a.zipped_data,
                 cipher=block_cipher)
19
20 \text{ exe} = \text{EXE}(\text{pyz},
21
              a.scripts,
22
              a.binaries,
              a.zipfiles,
23
              a.datas,
24
25
              [],
26
              name='spectral-clustering',
              debug=False,
27
              bootloader_ignore_signals=False,
28
              strip=False,
29
30
              upx=True,
              upx_exclude=[],
31
              runtime_tmpdir=None,
32
              console=True )
33
```

修改完文件后,使用如下命令重新构建exe可执行文件,直到整个过程不报错为止:

1 pyinstaller ***.spec #等待执行结束即可