

blog.csdn.net/HowieXue/article/details/105440114

module 'community' has no attribute 'best_partition' [已解决]_HowieXue的博客-CSDN博客

成就一亿技术人! : 1-1 minutes

问题描述：

python 执行graphs相关算法时，报错提示：

ModuleNotFoundError: No module named 'community'

第一反应猜测是没安装community包，于是就熟悉的操作 **pip install community**安排上了

```
Traceback (most recent call last):
  File "eval/evaluate_graphs.py", line 13, in <module>
    import community
ModuleNotFoundError: No module named 'community'
root@PC-201911051505:~/project/smt/G2SAT# pip install community
Collecting community
  Downloading community-1.0.0b1.tar.gz (2.2 kB)
Collecting Flask
  Downloading Flask-1.1.2-py2.py3-none-any.whl (94 kB)
Requirement already satisfied: requests in /usr/local/lib/python3.6/dist-packages (from community) (2.23.0)
Collecting Jinja2>=2.10.1
  Downloading Jinja2-2.11.1-py2.py3-none-any.whl (126 kB)
Requirement already satisfied: Werkzeug>=0.15 in /usr/local/lib/python3.6/dist-packages (from Flask->community) (1.0.1)
Requirement already satisfied: click>=5.1 in /usr/lib/python3/dist-packages (from Flask->community) (6.7)
Collecting itsdangerous>=0.24
  Downloading itsdangerous-1.1.0-py2.py3-none-any.whl (16 kB)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/lib/python3/dist-packages (from requests->community) (3.0.4)
Requirement already satisfied: certifi>=2017.4.17 in /usr/lib/python3/dist-packages (from requests->community) (2018.1.18)
Requirement already satisfied: idna<3,>=2.5 in /usr/lib/python3/dist-packages (from requests->community) (2.6)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/lib/python3/dist-packages (from requests->community) (1.22)
Requirement already satisfied: MarkupSafe>=0.23 in /usr/lib/python3/dist-packages (from Jinja2>=2.10.1->Flask->community) (1.0)
Building wheels for collected packages: community
  Building wheel for community (setup.py) ... done
  Created wheel for community: filename=community-1.0.0b1-py3-none-any.whl size=2916 sha256=d0708361c43092211e00d247bb237c33d26753d7ec5fd830473d16993864acd2
  Stored in directory: /root/.cache/pip/wheels/62/dd/16/4e7f3d56032fa46784369f2805bef73da877f6b2321fa8dd74
Successfully built community
```

但是使用中，发现又会报错：

AttributeError: module 'community' has no attribute 'best_partition'

```
Successfully read generated file formulas/1_0.cnf
Traceback (most recent call last):
  File "eval/evaluate_graphs.py", line 350, in <module>
    main()
  File "eval/evaluate_graphs.py", line 82, in main
    features += get_modularities(VIG, LIG, VCG, LCG) # Modularities of VIG & VCG
  File "eval/evaluate_graphs.py", line 295, in get_modularities
    part_VIG = community.best_partition(VIG)
AttributeError: module 'community' has no attribute 'best_partition'
```

解决办法：

起初以为是community包的版本问题，后来发现是需要安装python-louvain（用于社区检测的louvain算法）

解决步骤如下：

(安装前要先卸载community)

1. pip uninstall community
2. pip install python-louvain

```
root@PC-201911051505:~/project/smt/G2SAT# pip uninstall community
Found existing installation: community 1.0.0b1
Uninstalling community-1.0.0b1:
  Would remove:
    /usr/local/lib/python3.6/dist-packages/community-1.0.0b1.dist-info/*
    /usr/local/lib/python3.6/dist-packages/community/*
Proceed (y/n)? y
Successfully uninstalled community-1.0.0b1
root@PC-201911051505:~/project/smt/G2SAT# pip install python-louvain
Collecting python-louvain
  Downloading python-louvain-0.14.tar.gz (19 kB)
Requirement already satisfied: networkx in /usr/local/lib/python3.6/dist-packages (from python-louvain) (2.4)
Requirement already satisfied: numpy in /usr/local/lib/python3.6/dist-packages (from python-louvain) (1.18.2)
Requirement already satisfied: decorator>=4.3.0 in /usr/local/lib/python3.6/dist-packages (from networkx->python-louvain) (4.4.2)
Building wheels for collected packages: python-louvain
  Building wheel for python-louvain (setup.py) ... done
  Created wheel for python-louvain: filename=python_louvain-0.14-py3-none-any.whl size=9129 sha256=11ea1a986659f22cbba607386424ef52fe2b94c2a8366beb529ba47
  Stored in directory: /root/.cache/pip/wheels/d5/54/b7/9a703ffb0734ba1cdce4b827b2f07ed05e3108d76b32b9f510
Successfully built python-louvain
Installing collected packages: python-louvain
Successfully installed python-louvain-0.14
```

<https://blog.csdn.net/HowieXue>

之后community包就可以正常使用了：

```
root@PC-201911051505:~/project/smt/G2SAT# python eval/evaluate_graphs.py -s eval
Successfully read generated file formulas/1_0.cnf
mean/std num. vars: 320.0/0.0
mean/std num. clauses: 2296.0/0.0
mean/std VIG clust.: 0.9888886588666767/0.0
mean/std mod. VIG: 0.10420850039551888/0.0
mean/std mod. LCG: 0.07431690908949172/0.0
mean/std mod. VCG: 0.13881748775177832/0.0
mean/std mod. LCG: 0.14485819827556132/0.0
mean/std var. alpha: 14.8394/0.0
mean/std clause alpha: 10.647/0.0
```