ICML2019 Proportionally Fair Clustering

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This repository serves as the code base for ICML2019 Submission Paper: Proportionally Fair Clustering.

Requirements:

Python >= 3.7.0

scikit-learn >= 0.20.0

matplotlib >= 3.0.2

numpy >= 1.15.4

How to repeat our experiments

Go to root folder, run `python experiment.py` to start experiment. In command line, you can specify the ρ proportionality measure used for local capture algorithm. You can also specify which database you run your experiment with `--file_name` option. (available names `kdd`, `iris`, `diabetes`). To repeat the three experiments we did, you can run the following three commands,

```
python experiment.py --file_name iris --rho 1.00001
python experiment.py --file_name diabetes --rho 1.00001
python experiment.py --file_name kdd --rho 2 --sample
```

To customize your own experiments, see More Help section for support.

More Help

usage: experiment.py [-h] [--sample] [--sample_clients SAMPLE_NUM] [--sample_centers CENTER_NUM] [--file_name FILE_NAME] [--rho RHO]

optional arguments: -h, --help show this help message and exit --sample --sample_clients SAMPLE_NUM --sample_centers CENTER_NUM --file_name FILE_NAME --rho RHO