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spare gcca

Structure of Project

The structure of this project should be contruct like this:

- your_project_name/
 - o gcca/
 - spare_gcca
 - origin_gcca
 - **.** . . .
 - o gcca data/
 - csv data/
 - genes data/
 - twitter data/

Package

You should install some necessary package within python3

keras theano numpy sklearn pandas

Test result

Main programe is in all_kinds_of_test.py . You should open this file and choose which model you want to run

```
# preserve all model in one list
clf_list = [gcca, spare_gcca, cca, deepcca, WeightedGCCA, dgcca_]
# choose which model you want to use
clf_ = clf_list[0]
```

And then you should choose which part you want to print, such as, the first part:

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And then **comment the other printing code**, because it will take you massive time to run

And also, you can check the file which you like and deepen it.

parameter tunning

In deep cca, you only can tune epoch, batch size and learning rate, because the other parameter do not make a big deal. Or maybe you can edit the code whatever you want:

```
In deep_cca.py :
```

```
class deepcca(metric):
    def __init__(self, ds, m_rank, batch_size = 50, epoch_num = 10, learning_rate =
        # ...

# parameter you can tune
    self.batch_size = batch_size
    self.epoch_num = epoch_num
    self.learning_rate = learning_rate
In dgcca_format.py , you only can tune epoch and batch size :
```

```
class dgcca_(metric):
    def __init__(self, ds, m_rank, batchSize=40, epochs = 200):
    # ...

# parameter you can tune
    self.batchSize = batchSize
    self.epochs = epochs
```

Feedback

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If you have any issue, please let me know or email me b.ben.hjy@gmail.com or 879837607@qq.com

Reference

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