neural-collaborative-filtering

Files

data.py: prepare train/test dataset

utils.py: some handy functions for model training etc.

metrics.py: evaluation metrics including hit ratio(HR) and NDCG

gmf.py: generalized matrix factorization model

mlp.py: multi-layer perceptron model

neumf.py: fusion of gmf and mlp

engine.py: training engine

train.py: entry point for train a NCF model

It can be observed that NeuMF performs better than MLP and GMF.

Pytorch Versions

The repo works under torch 1.0. You can find the old versions working under torch 0.2 and 0.4 in tags.

TODO

• Batchify the test data to handle large dataset.





