

```
C:\Users\Wade\Anaconda3\envs\rosetta_GNN\python.exe F:/
volume/paper_code/TA-GNN/pytorch_code/main.py
Namespace(batchSize=30, dataset='diginetica', epoch=30,
hiddenSize=100, l2=1e-05, lr=0.001, lr_dc=0.1,
lr_dc_step=3, nonhybrid=False, patience=10, step=1,
valid_portion=0.1, validation=False)
```

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epoch: 0

start training: 2020-08-31 00:40:34.536784

```
C:\Users\Wade\Anaconda3\envs\rosetta_GNN\lib\site-
packages\torch\optim\lr_scheduler.py:123: UserWarning:
Detected call of `lr_scheduler.step()` before `optimizer
.step()`. In PyTorch 1.1.0 and later, you should call
them in the opposite order: `optimizer.step()` before `
lr_scheduler.step()`. Failure to do this will result in
PyTorch skipping the first value of the learning rate
schedule. See more details at https://pytorch.org/docs/stable/optim.html#how-to-adjust-learning-rate
```

```
"https://pytorch.org/docs/stable/optim.html#how-to-
adjust-learning-rate", UserWarning)
```

```
[0/22218] Loss: 10.6793
```

```
[4444/22218] Loss: 9.8775
```

```
[8888/22218] Loss: 9.3239
```

```
[13332/22218] Loss: 9.2242
```

```
[17776/22218] Loss: 8.5381
```

```
Loss: 208740.344
```

start predicting: 2020-08-31 02:00:47.998463

Best Result:

```
Recall@20: 9.0982 MMR@20: 2.4635 Epoch: 0, 0
```

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epoch: 1

start training: 2020-08-31 02:02:41.572754

```
[0/22218] Loss: 8.7306
```

```
[4444/22218] Loss: 9.3350
```

```
[8888/22218] Loss: 8.2165
```

```
[13332/22218] Loss: 8.7319
```

```
[17776/22218] Loss: 8.3158
```

Loss: 190035.938  
start predicting: 2020-08-31 03:23:14.315476  
Best Result:  
Recall@20: 10.9910 MMR@20: 3.1808 Epoch: 1, 1

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epoch: 2  
start training: 2020-08-31 03:25:07.595552  
[0/22218] Loss: 7.9907  
[4444/22218] Loss: 6.6705  
[8888/22218] Loss: 6.9118  
[13332/22218] Loss: 6.9206  
[17776/22218] Loss: 6.9782  
Loss: 170172.219  
start predicting: 2020-08-31 04:45:40.154765  
Best Result:  
Recall@20: 12.7542 MMR@20: 3.6081 Epoch: 2, 2

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epoch: 3  
start training: 2020-08-31 04:47:33.814825  
[0/22218] Loss: 7.1786  
[4444/22218] Loss: 7.1212  
[8888/22218] Loss: 7.7402  
[13332/22218] Loss: 8.0596  
[17776/22218] Loss: 8.4482  
Loss: 165594.469  
start predicting: 2020-08-31 06:08:06.559542  
Best Result:  
Recall@20: 12.7542 MMR@20: 3.6081 Epoch: 2, 2

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epoch: 4  
start training: 2020-08-31 06:10:00.318339  
[0/22218] Loss: 7.7811  
[4444/22218] Loss: 7.1899  
[8888/22218] Loss: 7.2492  
[13332/22218] Loss: 7.1869  
[17776/22218] Loss: 6.9705  
Loss: 164263.219

start predicting: 2020-08-31 07:30:33.169770

Best Result:

Recall@20: 12.7542 MMR@20: 3.6081 Epoch: 2, 2

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epoch: 5

start training: 2020-08-31 07:32:26.833820

[0/22218] Loss: 6.9274

[4444/22218] Loss: 6.7089

[8888/22218] Loss: 6.3999

Process finished with exit code -1