

Performance Report

The accuracy performance below of our model is categorized under:

1. MovieLens 1 Million dataset without time-weighted ratings
2. MovieLens 1 Million dataset with time-weighted ratings

The accuracy ratings for each user will be used together with the performance proxy metric, to determine the confidence of our proxy in evaluating our business goal.

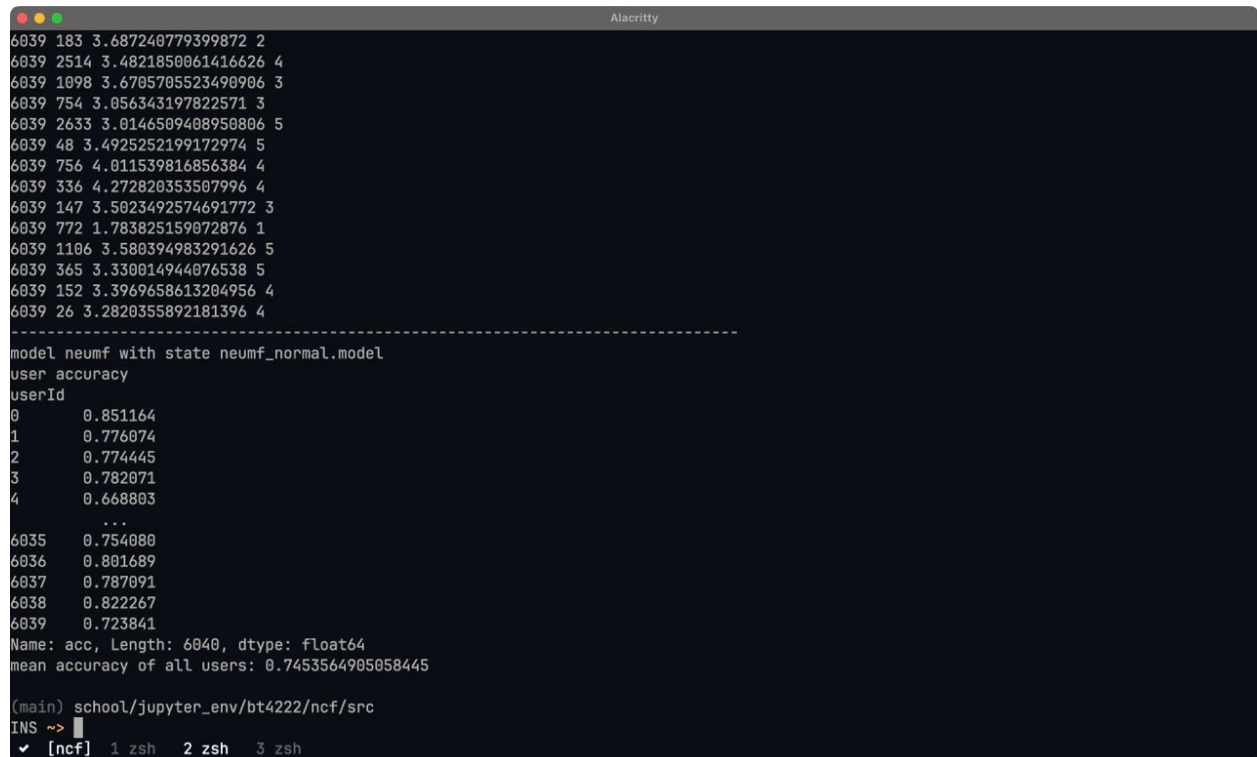
1. Dataset without time-weighted ratings

Our accuracy score for each user is listed in the repository:

"ncf\src\data\predicted\predict_normal.csv"

Format of the csv is: userId, accuracy score

Sample:



```
6039 183 3.687240779399872 2
6039 2514 3.4821850061416626 4
6039 1098 3.6705705523490906 3
6039 754 3.056343197822571 3
6039 2633 3.0146509408950806 5
6039 48 3.4925252199172974 5
6039 756 4.011539816856384 4
6039 336 4.272820353507996 4
6039 147 3.5023492574691772 3
6039 772 1.783825159072876 1
6039 1106 3.580394983291626 5
6039 365 3.330014944076538 5
6039 152 3.3969658613204956 4
6039 26 3.2820355892181396 4
-----
model neumf with state neumf_normal.model
user accuracy
userId
0      0.851164
1      0.776074
2      0.774445
3      0.782071
4      0.668803
...
6035   0.754080
6036   0.801689
6037   0.787091
6038   0.822267
6039   0.723841
Name: acc, Length: 6040, dtype: float64
mean accuracy of all users: 0.7453564905058445

(main) school/jupyter_env/bt4222/ncf/src
INS ~>
[ncf] 1 zsh 2 zsh 3 zsh
```

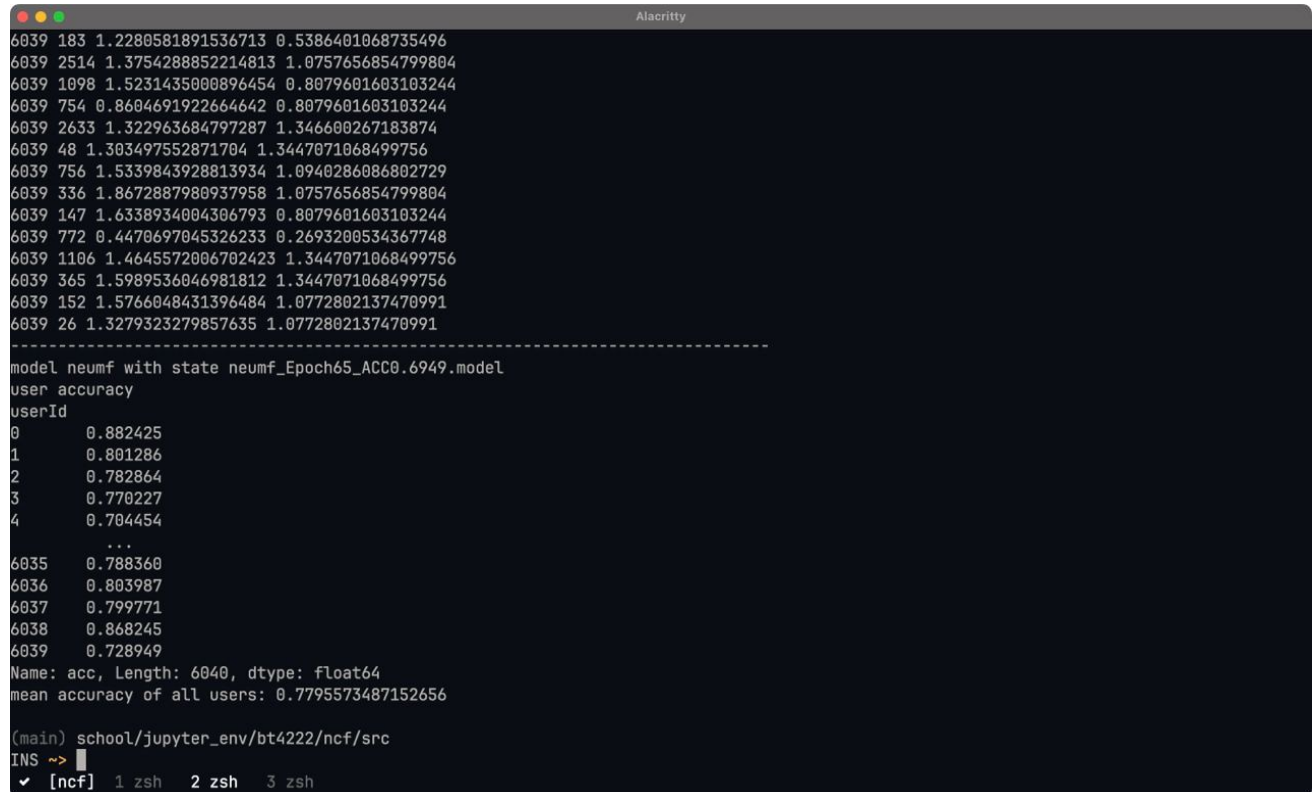
2. Dataset with time-weighted ratings

Our accuracy ratings for each user is listed in the repository:

"ncf\src\data\predicted\predict_time.csv"

Format of the csv is: userId, accuracy score

Sample:



```
6039 183 1.2280581891536713 0.5386401068735496
6039 2514 1.3754288852214813 1.0757656854799804
6039 1098 1.5231435000896454 0.8079601603103244
6039 754 0.8604691922664642 0.8079601603103244
6039 2633 1.322963684797287 1.346600267183874
6039 48 1.303497552871704 1.3447071068499756
6039 756 1.5339843928813934 1.0940286086802729
6039 336 1.8672887980937958 1.0757656854799804
6039 147 1.6338934004306793 0.8079601603103244
6039 772 0.4470697045326233 0.2693200534367748
6039 1106 1.4645572006702423 1.3447071068499756
6039 365 1.5989536046981812 1.3447071068499756
6039 152 1.5766048431396484 1.0772802137470991
6039 26 1.3279323279857635 1.0772802137470991
-----
model neumf with state neumf_Epoch65_ACC0.6949.model
user accuracy
userId
0      0.882425
1      0.801286
2      0.782864
3      0.770227
4      0.704454
...
6035   0.788360
6036   0.803987
6037   0.799771
6038   0.868245
6039   0.728949
Name: acc, Length: 6040, dtype: float64
mean accuracy of all users: 0.7795573487152656

(main) school/jupyter_env/bt4222/ncf/src
INS ~>
✓ [ncf] 1 zsh 2 zsh 3 zsh
```