

Python 3.8.5 (default, Sep 3 2020, 21:29:08) [MSC v.1916 64 bit (AMD64)]  
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IPython 7.19.0 -- An enhanced Interactive Python.

```
In [1]: 'C:/Users/Lunas/Desktop/Recommend.Systems Research/Midterm/starter --  
Mid-Term project/starter code and data/recommendations.py' = 'C:/Users/Lunas/  
Desktop/Recommend.Systems Research/Midterm/starter -- Mid-Term project/starter code and  
data'
```

path: C:\Users\lunas\Desktop\Recommend.Systems Research\Midterm\starter -- Mid-Term  
project\starter code and data

```
R(ead) critics data from file?,  
RML(ead ml100K data)?,  
P(rint) the U-I matrix?,  
V(alidate) the dictionary?,  
S(tats) print?,  
D(istance) critics data?,  
PC(earson Correlation) critics data?  
U(ser-based CF Recommendations)?  
LCV(eave one out cross-validation)?  
LCVSIM(eave one out cross-validation)?  
Sim(ilarity matrix) calc?  
Simu(user-user sim matrix)?  
I(tem-based CF Recommendations)?  
rml
```

Reading "u.data" dictionary from file  
Number of users: 943  
List of users [0:10]: ['196', '186', '22', '244', '166', '298', '115', '253', '305',  
'6']

```
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Simu(user-user sim matrix)?  
I(tem-based CF Recommendations)?  
sim
```

Enter similarity significance weighting n/(sim\_weighting): 0 [None], 25, 50  
50  
similarity weighting set to 50

Enter similarity threshold: >0, >0.3, >0.5

3  
sim\_threshold set to >0.3

RD(ead) distance or RP(ead) pearson or WD(rite) distance or WP(rite) pearson?  
wd

6.009615384615385% complete  
12.01923076923077% complete  
18.028846153846153% complete  
24.03846153846154% complete  
30.048076923076923% complete  
36.05769230769231% complete  
42.06730769230769% complete  
48.07692307692308% complete  
54.08653846153846% complete  
60.09615384615385% complete  
66.10576923076923% complete  
72.11538461538461% complete  
78.125% complete  
84.13461538461539% complete  
90.14423076923077% complete  
96.15384615384616% complete

R(ead) critics data from file?,  
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I(tem-based CF Recommendations)?  
lcvsim

Enter algorithm: U(ser-based) or I(tem-based)i  
L00\_CV\_SIM Evaluation  
2.65 % complete  
5.30 % complete  
7.95 % complete  
10.60 % complete  
13.26 % complete  
15.91 % complete  
18.56 % complete  
21.21 % complete  
23.86 % complete  
26.51 % complete  
29.16 % complete  
31.81 % complete  
34.46 % complete  
37.12 % complete

39.77 % complete  
42.42 % complete  
45.07 % complete  
47.72 % complete  
50.37 % complete  
53.02 % complete  
55.67 % complete  
58.32 % complete  
60.98 % complete  
63.63 % complete  
66.28 % complete  
68.93 % complete  
71.58 % complete  
74.23 % complete  
76.88 % complete  
79.53 % complete  
82.18 % complete  
84.84 % complete  
87.49 % complete  
90.14 % complete  
92.79 % complete

C:\Users\lunas\anaconda3\lib\site-packages\numpy\lib\function\_base.py:380:

RuntimeWarning: Mean of empty slice.

avg = a.mean(axis)

95.44 % complete

98.09 % complete

Errors for MLK-100k: MSE = nan, MAE = nan, RMSE = nan, len(SE list): 0, using  
sim\_distance with sim\_threshold >0.3 and sim\_weighting of 0/50

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