

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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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  
5  
sim\_threshold set to >0.5

```
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

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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
95.44 % complete
98.09 % complete
C:\Users\lunas\anaconda3\lib\site-packages\numpy\lib\function_base.py:380: RuntimeWarning: Mean of
empty slice.
  avg = a.mean(axis)
Errors for MLK-100k: MSE = nan, MAE = nan, RMSE = nan, len(SE list): 0, using sim_distance with
sim_threshold >0.5 and sim_weighting of 0/50

```

```

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