

Northeastern University, Khoury College of Computer Science

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## CS 6220 Data Mining | Assignment 3

Due: February 8, 2024

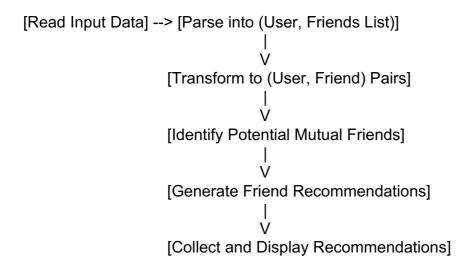
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Yichen Sun https://github.com/LAnselet/cs6220-datamining

## Pipeline Sketch

For any users unique integer ID, they have a comma separated list of unique IDs corresponding to the direct friends of the user with the unique ID. Furthermore, the user cannot be their recommended friends in any direct friends where they are mapped to each friend. Therefore, they shouldn't be included among the recommendation.

When a pair occurs more than once, we can add them together with reduceByKey and then sort them in descending order to make recommendation in limit of 10.



## Recommendations for the users

8942: 8939,8940,8943,8944

924: 439,2409,6995,11860,15416,43748,45881

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9993: 9991,13134,13478,13877,34299,34485,34642,37941
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9020: 9021, 9016, 9017, 9022, 317, 9023

9019: 9022,317,9023 8941: 8943,8944,8940

9992: 9987,9989,35667,9991

9022: 9019,9020,9021,317,9016,9017,9023

9021: 9020, 9016, 9017, 9022, 317, 9023

9990: 13134,13478,13877,34299,34485,34642,37941