

## Individual Project :

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Course ID: CMPE256

# Course Name : Large Scale Analytics

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#### Introduction



**Collaborative filtering** says that, if your past behaviour/preferences were similar to some other users, then your future behaviour may be as well. As a concrete example, suppose that you like John, Paul, and George, and other people like John, Paul, George, and Ringo. Then it stands to reason that you will like Ringo as well, even if you had never previously heard of him. The recommender system does not have to understand anything about what "John", "Paul", "George", and "Ringo" are — they could even be brands of toilet paper, and the algorithm would work identically.

**Content-based filtering** considers the characteristics of the things you like, and it recommends similar sorts of things. For instance, if you like "Billie Jean", "Crazy Train", and "Don't Stop the Music", then you might like other songs in the key of F- sharp minor, such as Rachmaninoff's "Piano Concerto No. 1", even if no one else has ever had that particular set of favourite songs before.

## Objective



Innovation component in the project



## Implementation

Software Requirements Jupyter Notebook(Python 3.6)

Hardware Requirements: Any computer with Anaconda installed would work.

Methodology:

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Recommend by common friends:

has provided the commentation of the commentat

Recommend by influence:

Consider the following hypothetical situation.





Algorithm steps

1. Two nodes are chosen at r	andom.	

2.	Their friendship is removed from the graph.

3. Friend recommendations for F1 and F2 are computed.

4. Rank of Enkiro Franking For this point and the interest is the control of the

5.	Friendship is put back to the graph.

6.	Executive of the state of the s

## 8. Datasets used

10. Proposition by the proposition of the following continues of the conti	<b>₹<b>!⊅6</b>6'n</b>

## 12.Results and discussion

14. Recommendations for node 1222:

**16.**Recommendations by Method 1:

17. [(153776,897),((118323,891)), (1746, 88), (993, 86), (1390, 86), (1391, 83), (1714, 83), (1059, 81),

19.Recommendation by Method 2:

20. <b>(155</b>	73, 10, <del>19,215,15,15,15</del>	<b>260943</b> )]((1889,16	.0772740 <b>4582</b> 4458	<b>8842),((18583, 1</b> 0(	96K9 <u>5</u> 84K37K63	<b>848</b> ),

21.Average Rank of Method 1:

23. Average rank of Method 2:

## 27.References

28. https://രർപ്യൂളെ ഒയുമുടിന്ന് പ്രവേശവേശവേശം പ്രവേശവേശം പ്രവേശം വരു വര്യ വരു	nl [2]

30. இரிகாற்கு நெல்லை இர் இல்ல மூல் பிறிக்கு நின்கி (2015/10/A-FRIEND-RECOMMENDATION-