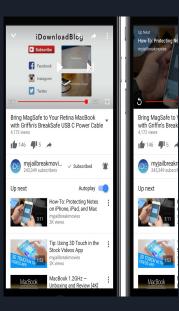
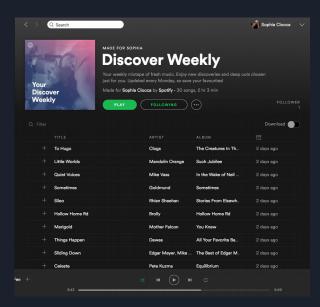
Recommender Systems

What is a Recommender System?



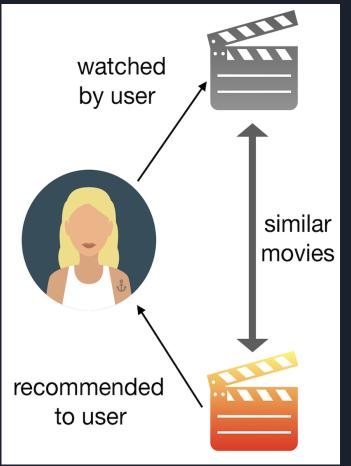




Youtube

Amazon

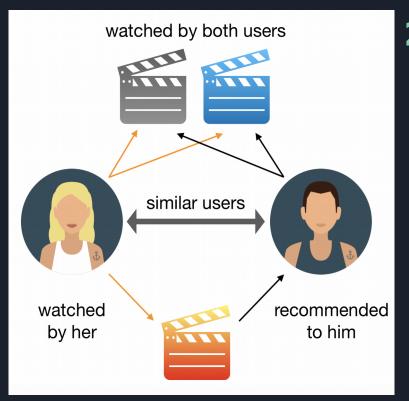
Spotify



1. Content based method

Recommend items based on the properties of items that user likes.

Ex: genres of music.



2. Collaborative method

Recommend items based similar user's interest

Ex: location based video recommendations.

Steps to implement a movie recommender system

- 1. Filter data by rating count [ex: count > 100]
- 2. Generate the pivot table
- 3. Find the correlation of movie/user with others
- 4. Fix a correlation threshold and recommend movies > threshold

MovieLens Dataset

	user_id	movie_id	rating	unix_timestamp
0	196	242	3	881250949
1	186	302	3	891717742
2	22	377	1	878887116
3	244	51	2	880606923
4	166	346	1	886397596

movield userld	4	5	10	14	15	18	19	26	31	34	
1	4.0	0.0	5.0	4.5	4.0	0.0	0.0	0.0	5.0	0.0	
2	4.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Original dataset

Pivot table