Movie Recommendation

What we have -1. v. data 7 Both are 2. u. item J Data files what we do -Algorithm Step-1- Reading data from Duta Set. first we read u date file and named the user-id, îtem-id, rating, timestamp. Next reading another data file "u. item" and named the columns item_id & title.

Step.23- Now merging the both the date fame.

and se get a single data file and we werged on Column I tom-id!

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Step-3:3- Exploratory was Here we will do some analysis such as if any movie rating is 5 and what if only 10-20 people watched that movie and rate that movie 5 which is not a good case to involve for that we will plot the histogram of item-id and number of rating. So we do some data sorting along with the number of rating and sort them descending. Now se plot the histogram. Here we Conclude that many maries have rated between 2.5 do 4.5 by large number of people but few maries are rated 1 to 2.5 and 4.5 to 5
which is not good to include. Next we use seaborn to cheek the clear relation between rating and number of rating and we found that as the rating increases 11. number of rating also increases and

Some point of time vice versa.

Step-40- Now we have user-id which rated the mevies so, what we will do is we make a maker of type -



But the problem is not each user rated all the movies, we will get let of NaN.

So, first we creete a matrix. verig pivot-table using user-id and title and values = rating

Step-50- Now extracting similar movies from matoix by correlation with that movie rating which we are given.

Hence we get com maries but we get NaN which is need 1 to drop. So we drop NaW. the higest correlation is +1 and lowest Now we want only those maries in recommendation which is rated by large number above 100 people. So we extract those movies and sort them in descending order. therefore we got the sesult. This is just a doc to read code

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