Movie recommender systems

my past browsing history, movie's are recommended to me. Thic kind of Sunday, October 26, 2025 6:37 PM # Based on recommender systems are used everywhere. (End to End).

Types of recommender Systems:

1. Content Based: Based on similarity of content-It would recommend. (If listening to love songs, you would be recommended lovesongs. Diff tags are made for

2. Collaborative filtering based: Based on User Interest, We recommend System. Say User A & B. We say, A & B have very similar movie interests. So if A likes 'M2'. Hence B would also be recommended M2.

Hybridi Mixes both of them

In this project we are gonna do 1. Content Based.

PROJECT FLOW:

VECTORIZATION (COMES UNDER PRE-PROCESSING) the main concept which we are going to learn. This

After a lot of transformation has been done, now we are going to work on this Dataset where the Column headers are id, title, tags.

(1) First we do stemming.

This is done to create 2 separate arrays of Same meaning word. For example, missed and missing both mean the same thing. So we stem it to stem.

Co de for this:

import nltk from mltk. stem. porter import Porter Stemmer ps = Porter Stemmer () z def stem (tent): y = [] for i in tent:
y.append (ps.stem (i)) return ". join (y)

sonal/20220012 " Af ['tags']. apply (stem)

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(2) The Next Important thing is to convert the 'tags'
Column into Vectors. The reason for this would be explained later. There are Different ways me can do Vechrizat,

the way we are going to apply is by using Bag of words.

Current the shape of Dataset is (4806 x 3). We will be miguing all the tage (ie all 4806 erosses of tage) and weste a new huge set of words.

From here we would see shooping top on repeating words [n depends on w.)

Repeating words [n depends on w.)

Say we choose n = 5000.

Now what the Algo does it goes throw each tag.

and creates a vector of 5000 where it tells in that tag how many times it has

reseated

repeated T, T2 T3	w, 0 1	W ₂ 1 1 0	W ₃ 2 0	W ₅₀₀₀ 0 5
; T	£.			· · · · · · · · · · · · · · · · · · ·

Say W, > Action then in tag! it has repeated o firmes and I time in T2. also have to make sure that we do not include words ie, and, are, of etc.

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