

Movie Recommendation System

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Motivation :-

Most of us suffer from this problem that we wanted to watch a movie but not sure which one to see. We end up in wasting a lot of time and loss of mental peace. Our app will help all such people.

We will get the names and ratings of the movies, user watched and liked.

Based on the ratings by a particular user to different movies, we intend to identify the movies that are more likely to be liked by a person who liked another movie.

Detailed Description :-

- We have a dataset consisting of ratings given to different movies by different users between 1996 and 2018. Each user has at least rated 20 movies.
- Based on the ratings by the users to different movies, we intend to identify the movies that are more likely to be liked by a person who liked another movie.
- We will be making clusters of similar movies using the KNN algorithm. We'll assign a similarity index by measuring the distance between the two points in a cluster.
- This model would be stored in the backend with all the computations done.
- On the front end, we'll take input of a movie name that a user had watched earlier and liked.
- Using the API for our webpage, we'll transfer this movie name(entered by the user) to the backend, where we'll get the cluster of the closest movies to the entered movie that the user is highly likely to enjoy.
- This list of recommended movies will be transferred back to our front end and displayed to the user.

Proposed Layout

User Id -

Password -

Hi XYZ !

Rate a Movie -

Name -

Rating -

Submit

Watched Movies -

Name	Rating
Iron Man	4
Dark Night	4.5
Toy Story	2

Recommended Movies -

Superman
Avengers
Ant Man
Spider Man
Batman Begins

Timeline :-

1. Week 1 -
 - Creating and training an initial model from the available data.
2. Week 2 -
 - Planning and designing login/authentication.
 - Designing the page layout such that it enhances user experience.
3. Week 3 -
 - Connecting The API
 - Loading that model onto server.
4. Week 4 -
 - Implementing authentication system
5. Week 5 -
 - Merging user's data with the initial database and predicting from the stored model.
6. Week 6 -
 - Testing and Debugging