

MOVIE RECOMMENDATION SYSTEM USING JAVASCRIPT

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ABSTRACT

Movie Recommendation System usually suggest what movies a user will like based on the attributes present in previously liked movies. These movie recommendation system helps to personalize a platform and helps the users to find something that they like based on their interests. In this paper, the recommendation system has been built on the type of genres that the user might prefer to watch. The traditional methods of movie recommendation consumes a lot of time for searching the interested movies. So, we proposed a system that produces the top 30 similar movies to the user based on genre given by the user. This project is based on python and similarity algorithms. We calculated the similarity scores between the movies in the dataset using cosine similarity algorithm. The system displays the top similar movies when a user gives a movie title. And this Project also organizes the information about movies in CSV file

Keywords: Recommendation, Suggestions, Attributes, Genre, Similarity, Movie Title, CSV File

1.INTRODUCTION

Every day, technological development soars to new heights, which has caused the amount of information to grow dramatically. We use machine learning, which automates the creation of analytical models, to handle such massive amounts of data. Three broad categories make up the early classification of machine learning: Supervised learning, unsupervised learning, and reinforcement learning. Without being explicitly programmed to do so, machine learning algorithms create a model from sample data, also referred to as training data, in order to make predictions or decisions. Machine learning algorithms are used in a wide range of applications, including recommendation systems, speech recognition, email filtering, computer vision, and many more, where it is challenging or impractical to create conventional algorithms to carry out the required functions. When browsing the internet today, whether purchasing a product from an e-commerce site or watching a movie on a videoondemand service, the recommendation system framework is crucial. We rely on recommendations made by others in our daily lives, whether they come from personal recommendations or evaluations of broad surveys. People frequently use online recommender systems to decide on the items that are relevant to their choices. The purpose of recommendation systems, which are software tools and techniques, is to provide a group of users with practical and informed recommendations for goods or services that might be of interest to them. In other words,

recommendation systems are a subset of information filtering systems that aim to predict the items.

2.LITERATURE SURVEY

The first recommendation system was established in 1990 and was based on the e-commerce recommender which is known as the tapestry. The term recommender system was coined by a computerbased librarian named as Grundy in 1979. After that, there was the invention of various recommendation systems using various technologies. Today, there is a large number of recommendation systems available with different technologies and it is available in different fields also. Nisha Sharma and Mala Dutta. [1] proposed an overview survey on the recommendation system which contains all details about the recommendation system. Gaurav Srivastav [2] proposed the recommendation system using the concept of cosine similarity and the KNN algorithm. Here, we studied cosine similarity. Kumar et al.

[3] proposed MOVREC, a movie recommendation system based on collaborative filtering approaches. Collaborative filtering takes the data from all the users and based on that generates recommendations. Munoz-

Organero, Mario . [4], In this paper he proposed a Collaborative

Recommender

System Based on SpaceTime Similarities. R. E. Nakhli, H. Moradi, and M. A. Sadeghi. [5], In this paper, proposed the recommendation system using the percentage view criteria which helps to get the suggestions. [6] proposed a brief survey on different types of recommender systems on their use of it. Peng, Xiao, Shao Liangshan, and Li Xiuran.

[7], In this paper the electronic commerce recommendation system has a similar look and makes a specialty of the collaborative filtering algorithm in the utility of a personalized film recommendation system. Sharma and Maan. [8] in their paper analyzed various techniques used for recommendations, collaborative, hybrid, and content-based recommendations. Also, it describes the pros and cons of these approaches. Shreya Agrawal and Pooja Jain. [9] in their paper give information about the various approaches to making a recommender system.

Nagamanjula R and A.

Pethalakshmi.

[10] in their paper proposed a novel scheme for the use of user similarity and opinion mining for the recommender system. M.

Jahrer, A. Toscher, and R.

Legenstein.

[11], In this paper proposed the recommender system for ecommerce facilities which will be used for recommending a product. Bhavya Ghai, Joydip Dhar, and Anupam Shukla.

[12], In this paper they examine multi-level ensemble learning with regard to recommender systems and critique traditional ensemble learning.

3.EXISTING SYSTEM

Existing System The reason behind this improvement is the popularity gained by organizations like Netflix whose primary objective is customer satisfaction. Before existence

the recommendation system, individuals would physically choose movies to watch from movie libraries. They either had to read the user's reviews and based on the review they would select a movie or had to randomly select a movie. This procedure isn't feasible, as there is an enormous number of spectators with a unique preference for movies. Hence many recommendation systems have been developed over the past decade. These systems use different approaches like a collaborative approach, a contentbased approach, a hybrid approach, etc. Taking a look at the behavior and history of different clients, based on their ratings, the system suggests to us what to watch without having to put effort into deciding what to watch. These recommendation systems are categorized into two types, i.e. collaborative filtering approach and content-based approach. The collaborative approach combines the ratings of different users that have similar tastes and then recommends the movies whereas the content-based approach is limited to a single user, where the user's past history and ratings are used for providing recommendations. There are a number of methodologies introduced to implement this recommendation system which includes various fields of Data Mining , Clustering and Bayesian Network methodology.

4.PROBLEM SYSTEM

This recommendation system recommends different movies to users. Since this system is based on a collaborative approach, it will give progressively explicit outcomes contrasted with different systems that are based on the content-based approach. Contentbased recommendation systems are constrained to people, these systems don't prescribe things out of the box. These systems work on individual users' ratings, hence limiting your choice to explore more. While our system which is based on a collaborative approach computes the connection between different clients and relying upon their ratings, prescribes movies to others who have similar tastes, subsequently allowing users to explore more. it is a web application that allows users to rate movies as well as recommends them appropriate movies based on other's ratings.

APPLICATIONS

- It can be used on different OTT Platforms like Netflix, Amazon Prime, etc.
- It Can predict the approximate or near-correct recommendation.
- The recommendation system will also be used in different fields like ecommerce, music, for books.

RESULT

Movie recommendation system using machine learning



5.CONCLUSION

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