Project Synopsis

**Movie Recommendation System**

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A close up of a sign

Description automatically generated

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**Movie Recommendation System**

**Abstract**

With the development of mobile Internet, the TV industry is facing threats and challenges. This is because Big Data is changing the industry. The primary task of TV industry like Netflix is how to take the advantage of Big Data technology.

For Netflix programs, audience rating is the metrics whether the program is good or not. The more time the audience is watching the particular show,the more popular the show is for the Audience.

This paper proposes a movie recommendation system. The system is based on Big Data technology and content based recommendation technique which can automatically push programs to audience according to their interest.

This program recommendation system is designed to improve audience rating, and catch the attention of audiences. The system is based on massive user data, and data mining algorithms to analyze the user's interests.

1. **Introduction-**

Movie recommendation system is been designed to improve audience rating, and catch the attention of audiences by providing the user similar movies which the user likes faster and easily. The system is based on massive user data, and content based recommendation technique to analyze the user's interests.

1. **Literature Review-**

1.Tv program recommendation system based on big data:

**DOI:** [10.1109/ICIS.2016.7550923](https://doi.org/10.1109/ICIS.2016.7550923) :

*There are errors of program ratings recommendation*system, and the program list is affected by human emotion as well. Our Program Recommended system based on Big Data reasonably gives solution to those drawbacks.

2. Through Data Analytics the watch time of particular Human-Machine can be used to determine the type of shows user like to watch.

1. **Problem Statement-**

To Build a recommendation system website in which if a user watch a particular movie then the system must recommend next top 10 movies which is similar to the movie user has watched.

1. **Objectives-**

The primary objective is to build an algorithm that can predict similar movies according to user’s interest. After building the algorithm we will be making an website to deploy the algorithm on the web and to make the algorithm user friendly.

1. **Scope-**

This paper proposes a recommendation system, which can improve audience rating. In this system we have used dataset of 5000 movies. This system uses two type of recommendation system 1: Demographic 2: content based. Demographic system uses IMDB formula to find top popular movies next in this system system we use countvectorizer and cosine similarity to find movies similar to users likes.

1. **Benefits for environment-**

Recommender systems help the users to get personalized recommendations, helps users to take correct decisions and redefine the users web browsing experience, retain the customers, enhance their experience.Recommendation engines provide personalization and helps to reduce the stress by finding similar movies easily.

1. **Benefits for society (If applicable)-**

By using this recommendation system the cable operators having there default channel which are free to the users can start showing them the popular movies on that channel .By this way the cable operators will get the money which will be generated by the advertisement and the end users will not have to pay extra money for getting the channels which are showing similar movies.

1. **Applications-**

Netflix uses this technology to recommend the users the similar shows which the user is watching so that the more the time the user spends on the applications the more will be the revenue generated . By using Content based Filtering and Collaborative based Filtering the system can display similar movies which the user is currently watching.

Youtube also has this application to recommend the users the similar videos by analyzing the users behaviour and as per that recommend the similar videos on there channel.

All the website which are similar to this in which videos are to be recommended so that the users can browse efficiently and does not face any problems to search the similar contents uses this technique to predict the next five to ten similar videos and display it to the end user.

1. **Technology stack-**

Google Colab is been used to perform the machine Learning Algorithm in which are doing unsupervised Learning and by Content based filtering technique we will be recommending the next five to ten movies based on the movie which was watched by user.

Python Flask will be used to make the web framework which will fetch the data from the colab and display that data to the website and will help the site look interactive and easy to communicate and html,css will be used to make the site attractive to the end user.

**References**

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