Content Based on Movie Recommendation System

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Abstract- *A recommendation system is a system that provides suggestions to users for certain resources like books, movies, songs, etc., based on some data set. Movie recommendation systems usually predict what movies a user will like based on the attributes present in previously liked movies. Such recommendation systems are beneficial for organizations that collect data from large amounts of customers, and wish to effectively provide the best suggestions possible. A lot of factors can be considered while designing a movie recommendation system like the genre of the movie, actors present in it or even the director of the movie. The systems can recommend movies based on one or a combination of two or more attributes. In this paper, the recommendation system has been built on the type of genres that the user might prefer to watch. The approach adopted to do so is content-based filtering using genre correlation. The dataset used for the system is Movie Lens dataset.*

Technology : ML – Machine Learning

I. INTRODUCTION

A recommendation system is a system that provides suggestions to users for certain resources like books, movies, songs, etc., based on some data set.Movie recommendation systems usually predict what movies a user will like based on the attributes present in previously liked movies. Such recommendation systems are beneficial for organizations that collect data from large amounts of customers, and wish to effectively provide the best suggestions possible. A lot of factors can be considered while designing a movie recommendation system like the genre of the movie, actors present in it or even the director of the movie. The systems can recommend movies based on one or a combination of two or more attributes. In this paper, the recommendation system has been built on the type of genres that the user might prefer to watch. The approach adopted to do so is content-based filtering using genre correlation. The dataset used for the system is TMDB dataset. The data analysis tool used is Pandas.

II. LITERRATURE REVIEW

2.1) Existing Products And Systems

Current Social Networking World Internet social networking sites, which began in 1995 with Classmates.com, have surged in popularity and use through word- of-mouth advertising. Since then, a wide range of virtual communities have formed serving different purposes and targeting varying niche audiences:In particular, we've chosen to explore the movie niche as this is an area where our project can significant improvements compared to existing products and systems. Traditional movie websites (IMDB, AOL Movies) function by proving global user ratings on movies in their database. Movies are categorized by metadata such as genre, era,directors, and so on. Users can search for movies, browse lists and read reviews written by critics or other users. However, most of these services lack

2.2) Background

Tracking Over the past decade, a large number of recommendation systems for a variety of domains have been developed and are in use. These recommendation systems use a variety of methods such as content based approach, collaborative approach, knowledge based approach, utility based approach, hybrid approach, etc. Most of the online recommendation systems for a variety of items use ratings from previous users to make recommendations to current users with similar interests. One such system was designed by Jung, Harris, Webster and Herlocker (2004) for improving search results. The system encourages users to enter longer and more informative search queries, and collects ratings from users as to whether search results meet their information need or not. These ratings are then used to make recommendations to later users with similar needs.

III. IMPLEMENTATION DETAILS

3.1 WEB DEVELOPMENT APPROACH :

Simple steps of website development process of web production. For an organized process of website development follow a number of standard or specific frameworks, modeling tools, methodologies and languages. The development team should follow the timeline and quality control.

Complete Analysis, Planning and Estimation :

First step of web development is understands the requirement of client. Then a complete analysis will cover all the requirement of client. and how the website is help to the business. Important thing is finding the target audience. All the existing hardware, software, people and data should be carefully access.

Primary specification :

Primary specification is covering each and every element of the project requirement. The modules of the site with general layout, website navigation and dynamic parts of integrated in the specification. Big projects will require consolation to charge extra business and technical requirements. After reviewing and approving the primary document, written proposal, outlining the scope of project including responsibilities, timelines and costs.
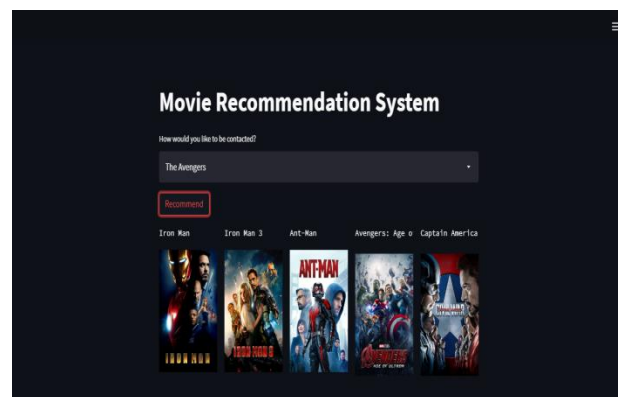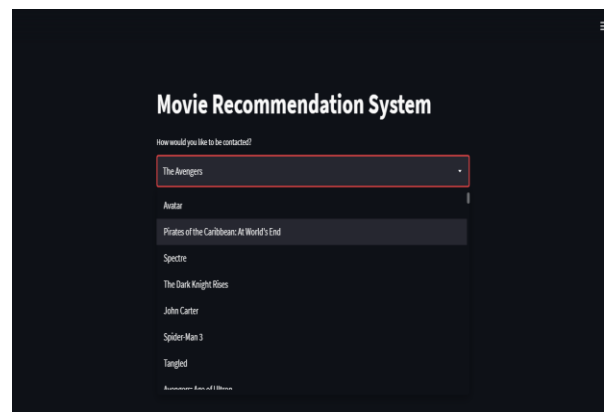
Website design and Web development :

After building the specification, work on the website is schedule upon receipt of the signed proposal, deposit, any written content materials and graphics you wish to include. The layouts and navigation will be designed as a prototype.
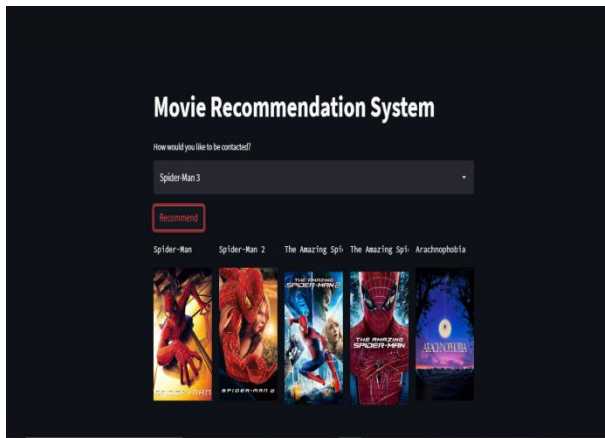
Some customers may be interested only in a full functional prototype. In this case we may need to show them the interactivity of the application or site. But in most of the cases customer may be interested in viewing two or three design with all images and navigation.

Content writing :

This phase is necessary mainly for the web sites. There are professional content developers/writers who can write industry specific and relevant content for the site.

Content writers to add their text can utilize the design templates. The grammatical and spelling check should be over in this phase.

3.2 MAIN SYSTEM ARCHITECTURE :

IV. RESULTS

V. CONCLUSION

Cosine Similarity is presented in the proposed methodology. Exiting content based approach is implemented.
On TMDB dataset.
dataset and results has been arranged with proper manner.
By using pandas and numpy libraries. streamlit framework is used for front end website designing

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