

# Movie Review Generator

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## ABSTRACT

This Android app will help the people to know about Semantics of the movies. In this project, we propose a Movie Recommendation System by combining Naive Bayes Algorithm with Collaborative filtering. The recommendation system is able to predict the everchanging area of interest or tastes of users about the movies. In this project, we propose a Movie Recommendation System by combining Naive Bayes Algorithm with Collaborative filtering. The recommendation system is able to predict the everchanging area of interest or tastes of users about the movies.

**Keywords:** Online Movie Review Generator, Python, Flask.

## INTRODUCTION

Recommendation System is a subclass of information filtering system that seeks to predict the ‘rating’ or ‘preference’ that user would give to an item. In this project, we have combined Naive Bayes Algorithm with Collaborative filtering for predicting which movie the user will like the best. Collaborative filtering algorithm usually works by searching a large group of people and finds a smaller set with tastes similar to the user. It looks at other things; they like and combine them to create a ranked list of suggestions. Finally, it shows the suggestion to the user. Sentiment analysis is a field dedicated to extracting subjective emotions and feelings from text. One common use of sentiment analysis is to figure out if a text expresses negative or positive feelings. Written reviews are great datasets for doing sentiment analysis, because they often come with a score that can be used to train an algorithm.

## Problem Formulation

### A. Subsection

The Movie Review And Rating System is the System Which can help the user to get the correct rating about the movie along with the reviews on that particular movie, so this application will be the web application where the actions performed by the user will be thorough dynamic in nature.

### B. Sub-subsection

Purpose of movie recommendation system aims to provide users with accurate movie recommendations. Usually basic recommendation system to make recommendations consider one of the following factors; User preference known as content based Filtering or the preference of similar users known as collaborative filtering. To create a stable and accurate recommender system will use of content based filtering.

## LITERATURE REVIEW

First paper on recommender system was published in year 1998. Since then a significant number of papers had been published. Different factors have been explained to increase the reliability of recommender system. In the year 2005, John O' Donovan n, Barry Smyth, have taken trust as the percentage of correct predictions that a profile has made in general (profile-level trust) or with respect to a particular item (item-level trust) [1]. Our project's main focus is on recommending movies to users based on their preferences. The system should be able to look at the data on videos in the database and provide these videos to people who might like them. Recommendation Systems are used to provide automatic recommendations to users of a service by using user's behaviors from the past. There are a lot of algorithms available for recommender systems. Thus, choosing one among all of these is a difficult task. This decreases the prediction error by 22%.. There are various types of recommender systems with different approaches and some of them are classified as below: Content-based Filtering Systems (CBF based systems), since this system has accuracy of 75%.

## METHODOLOGY

System testing is actually a series of different tests whose primary purpose is to fully exercise the computer-based system. Although each test has a different purpose, all work to verify that all the system elements have been properly integrated and perform allocated functions. The testing process is actually carried out to make sure that the product exactly does the same thing what is supposed to do. In the testing stage following goals are tried to achieve: -

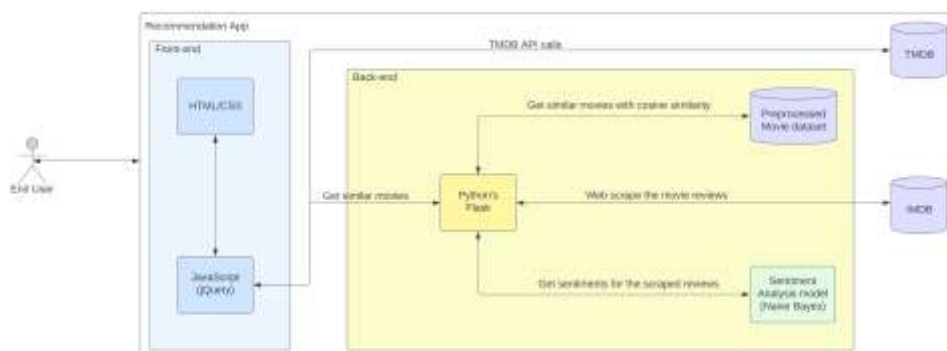
- To affirm the quality of the project.
- To find and eliminate any residual errors from previous stages.
- To validate the software as a solution to the original problem.
- To provide operational reliability of the system

## INTEGRATION TESTING

After each unit is thoroughly tested, it is integrated with other units to create modules or components that are designed to perform specific tasks or activities

## SYSTEM TESTING

System testing is a black box testing method used to evaluate the completed and integrated system, as a whole, to ensure it meets specified requirements.



## RESULT DISCUSSIONS

In our project we have developed a hybrid approach i.e combination of both content and collaborative filtering .Both the approaches have advantages and dis-advantages .in content based filtering the it based on the user ratings or user likes only such kind of movie will recommended to the user. Advantages: it is easy to design and it takes less time to compute.

## CONCLUSION

In this project, to improve the accuracy, quality and scalability of movie recommendation system, a Hybrid approach by unifying content based filtering and collaborative filtering; using Singular Value Decomposition (SVD) as a classifier and Cosine Similarity is presented in the proposed methodology.

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