A Synopsis on

Movie Recommendation System

Submitted in partial fulfillment of the
requirements of the degree of

Bachelor of Engineering

in

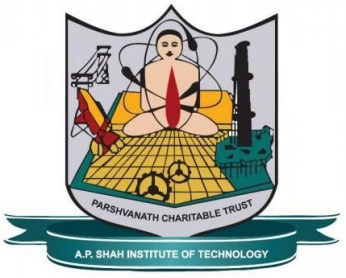
Computer Engineering

by

1.Suraj Shetty (16102007)
2.Akshay Udeg (16102016)
3.Akshay Rathod (16102012)

Name of Guide

Prof. Sukhada Aloni



Department of Computer Engineering
A.P. Shah Institute of Technology
G.B.Road,Kasarvadavli, Thane(W), Mumbai-400615
UNIVERSITY OF MUMBAI
2019-2020

CERTIFICATE

This is to certify that the project Synopsis entitled ***"Movie Recommendation system"*** Submitted by ***"Suraj shetty(16102007), Akshay Udeg(16102016), Akshay Rathod(16102012)"*** for the partial fulfillment of the requirement for the award of a degree ***Bachelor of Engineering*** in ***Computer Engineering.***to the University of Mumbai,is a bonafide work carried out during the academic year 2019-2020

Prof. Amol Kalugade
Co-Guide

Prof. Sukhada Aloni
Guide

Prof. Sachin Malve
Head Department of Computer Engineering

Dr. Uttam D.Kolekar
Principal

External Examiner(s)

1.

2.

Place:A.P.Shah Institute of Technology, Thane
Date: 31-10-19

Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

——————————————

(Signature)

——————————————

Suraj Shetty(16102007)
Akshay Udeg(16102016)
Akshay Rathod(16102012)

Date: 31-10-19

Abstract

1. 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 advantage of Big Data technology.

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

3. 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.

Introduction

Recommender system are used to provide personalized recommendations according to user profile and previous behavior. Recommender systems are widely used in the Internet Industry. Services like Amazon, Netflix, and YouTube are typical examples of recommender system users. Recommender systems cannot only help the users find their favorite products, but also bring potential profit to online service providers.

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 a website to deploy the algorithm on the web and to make the algorithm user friendly.

Literature Review

1. Tv program recommendation system based on big data:
DOI: 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.

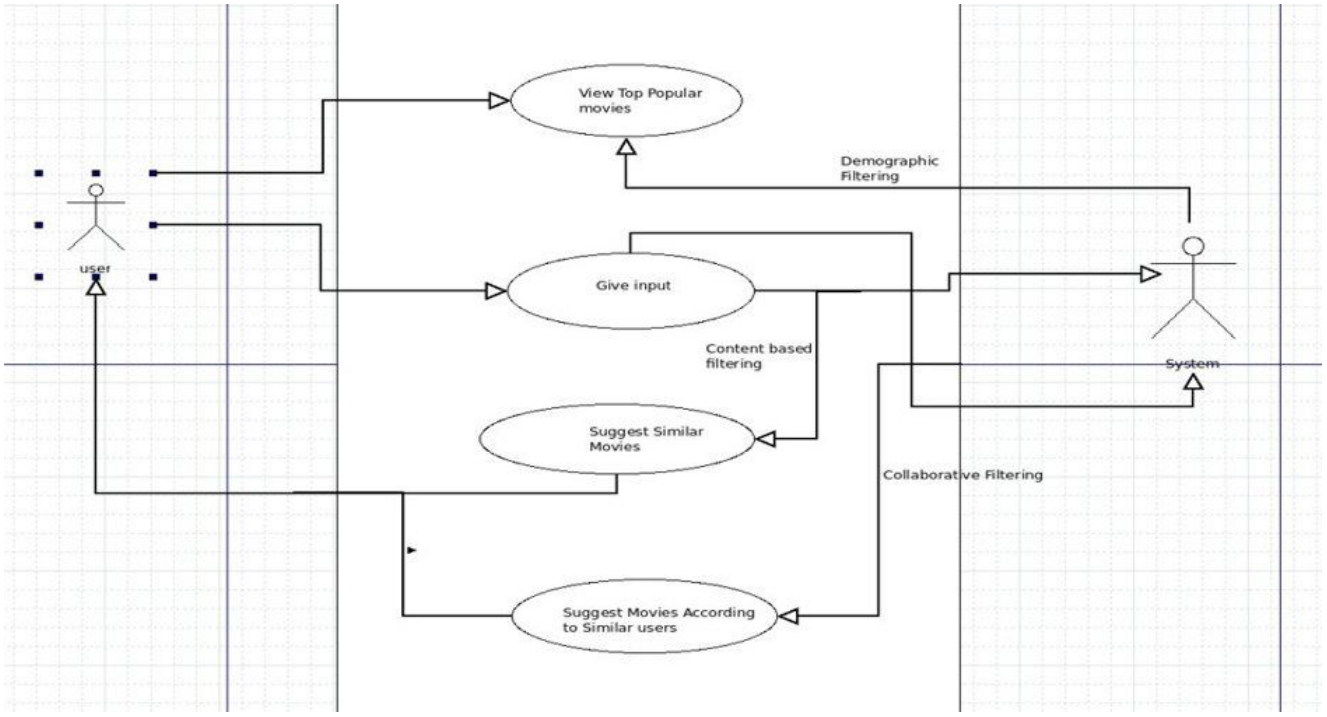
Problem Definition

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

Proposed System Architecture/Working

We propose a recommendation system in which at first we will build an system using content based filtering to recommend the movies. we will also make use of uipath tool to take run time data into excel sheet to get latest movie dataset and after that we will make an website to make the recommendation system user friendly.

Design and Implementation



Summary

The work presented in this report is related to Movie recommendation system.

- Demographic filtering : They offer generalized recommendations to every user, based on movie popularity and/or genre.
- Content based filtering : They suggest similar items based on a particular item. This system uses item metadata, such as genre, director, description, actors, etc. for movies, to make these recommendations.
- collaborative filtering : This system matches persons with similar interests and provides recommendations based on this matching.
- Uipath - To take run time data into excel sheet so as to recommend latest movies.

References

1. Oh J, Sung Y, Kim J, et al. Time-Dependent User Profiling for TV Recommendation[C]//Cloud and Green Computing (CGC), 2012 Second International Conference on. IEEE, 2012: 783-787.

2. Verma J P, Patel B, Patel A. Big Data Analysis: Recommendation System with Hadoop Framework[C]//Computational Intelligence & Communication Technology (CICT), 2015 IEEE International Conference on. IEEE, 2015: 92-97.