**MAJOR PROJECT**

**SYNOPSIS**

**ON**

**MOVIE RECOMMENDATION SYSTEM**

**Submitted By**

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**Project Proposal Approval Form (2017-18)**

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**Major**

**Project Title: Movie Recommendation System**

**Abstract:**

Now a day’s recommendation system has changed the style of searching the things of our interest. It is based on collaborative filtering approach that makes use of the information provided by users, analyzes them and then recommends the movies that is best suited to the user at that time. Movie RSs provide a mechanism to assist users in classifying users with similar interests. This focuses on the movie recommendation systems whose primary objective is to suggest a recommender system through data clustering and computational intelligence. This makes recommender systems essentially a central part of websites and e-commerce applications.

**Keywords:**

Recommender Systems (RSs), Collaborative Filtering(CF).

**Introduction:**

A recommendation system has become an indispensable component in various e-commerce applications. Recommender systems collect information about the user’s preferences of different items (e.g. movies, shopping, tourism, TV, taxi) by two ways, either implicitly or explicitly. An implicit acquisition of user information typically involves observing the user’s behavior such as watched movies, purchased products, downloaded applications. On the other hand, a direct procurement of information typically involves collecting the user’s previous ratings or history. Collaborative filtering (CF) is the way of filtering or calculating items through the sentiments of other people. It first gathers the movie ratings given by individuals and then recommends movies to the target user based on like-minded people with similar tastes and interests in the past. Additional impression on which some recommender systems are based is clustering. Clustering is a popular unsupervised data mining tool that is used for partitioning a given dataset into homogeneous groups based on some similarity or dissimilarity metric.

As information technology develops in these days, we can easily obtain the information from the Internet. Since there are massive materials on the Internet, it is difficult to use all of them efficiently. Thus we should choose which materials to use. This means that we need to know which one is useful and which is not for better recommendation. Nowadays, smartphones become one of the most important tools for our life.

**Problem Statement:**

* To create a data set that has all relevant information about a particular movie.
* The biggest challenge was to have the most appropriate movie recommended list.

**Literature Review:**

Recommender systems have become an important research field since the emergence of the first paper on collaborative filtering in the mid-1990s. In general, recommender systems are defined as the supporting systems which help users to find information, products, or services (such as books, movies, music, digital products, web sites, and TV programs) by aggregating and analyzing suggestions from other users, which mean reviews from various authorities, and user attributes. However, as academic researches on recommender systems have increased significantly over the last ten years, more researches are required to be applicable in the real world situation. Because research field on recommender systems is still wide and less mature than other research fields. Recommender systems are information filtering tools that aspire to predict the rating for users and items, predominantly from big data to recommend their likes. Movie recommendation systems provide a mechanism to assist users in classifying users with similar interests. This makes recommender systems essentially a central part of websites and e-commerce applications [1].

Collaborative filtering and content based filtering are the prime approaches to provide recommendation to users. Both of them are best applicable in specific scenarios because of their respective ups and downs. Collaborative filtering system recommends items based on similarity measures between users and/or items. The system recommends items preferred by similar users. This is based on the scenario where a person asks his friends, who have similar tastes, to recommend him some movies [2].

**Objective:**

To develop an intelligent movie recommender system for easy selection of movie choices according to given datasets by applying machine learning.

**Methodology:**

Work with dataset

Framework preparation

Recommendation modelling

Apply ML algorithm

Development of application

**System Requirements:**

**Hardware:**

1.Computer System

**Software:**

1.Python

**Schedule (PERT Chart):**

Sep mid Oct Oct Nov Dec

2017 2017 2017 2017 2017

1.Begin.

2.Literature Survey.

3.Work with dataset

4.Make framework.

5. Make recommendation modelling

6. Development of application.

7. Test the recommendation model

8. Presenting the work.

**References:**

# [1] Manoj Kumar, D.KYadav, Ankur Singh, Vijay Kr. Gupta,” A Movie Recommender

# System: MOVREC” International Journal of Computer Applications (0975 – 8887)

# Volume 124 – No.3, August 2015.

**[2]** Hande, Rupali. (2016,11). MOVIEMENDER- A MOVIE RECOMMENDER SYSTEM.

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