

A project report on

# **MOVIE RECOMMENDATION ENGINE**

Submitted in partial fulfillment of requirements for the award of degree in

**DEPARTMENT OF COMPUTER APPLICATIONS**

**Of**

**BENGALURU CITY UNIVERSITY**

**BENGALURU**

**Submitted by**

**Anubhav Lal (R1920620)**



**ACHARYA INSTITUTE OF GRADUATE STUDIES**

(NAAC Reaccredited 'A' Grade and Affiliated to Bengaluru City University)  
1#89/90, Soldevanahalli, Hesaraghatta Road, BENGALURU – 560107

**2021 – 2022**

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**UNDER THE GUIDANCE OF**

**Prof. Shruthi H K**

**Assistant Professor**

**Department of Computer Applications**

**AIGS, Bengaluru**



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Soladevanahalli, Heseraghatta Road, Bengaluru-560107

## Department of Computer Applications



## UNDERTAKING

**Anubhav Lal (R1920620)** studying in 6<sup>th</sup> Semester BCA at A.I.G.S hereby undertake that the project has been carried out by us as a part of fulfilment of the requirements of the award of the degree as prescribed by Bengaluru City University. The project was carried out at **Acharya Institute of Graduate Studies (A.I.G.S)** under the guidance of **Prof. Shruthi H K**. This project has not formed the basis for the award of any other degree of Bengaluru City University

**Signature of the student**

1. \_\_\_\_\_

# ACHARYA INSTITUTE OF GRADUATE STUDIES

(NAAC Reaccredited 'A' Grade and Affiliated to Bengaluru City University)

Soladevanahalli, Heseraghatta Road, Bengaluru-560107

## Department of Computer Applications



ACHARYA

## CERTIFICATE

This is to certify that the project entitled

### MOVIE RECOMMENDATION ENGINE

Submitted in partial fulfilment of the requirement of the degree of  
Bachelor of Computer Application is a result of the bonafide work carried out

by

**Anubhav Lal (R1920620)**

During the academic year 2021-2022

#### Internal Guide

Shruthi H K

Assistant Professor

Dept. of Computer Application

AIGS, Bengaluru-560107

#### Head of Dept

Ramakrishna. C.N

HOD

Dept. of Computer Application

AIGS, Bengaluru-560107

#### Principal

Dr. Gurunath Rao Vaidya

AIGS, Bengaluru-107

Examiner 1: \_\_\_\_\_

Examiner 2: \_\_\_\_\_

## ACKNOWLEDGMENT

Life enhances better opportunity with better blessings with adequate space and time. It was a great blessing for doing this project titled “*Movie Recommendation Engine*”, where we have put into all our efforts and dedication towards it resulting in getting undiscovered knowledge, better experiences, and ideas behind. To give brighter and broader measures there has been a few concerns supportive to make this project to be real time application, without which our project would have been meaningless.

First, our heartfelt gratitude and respect to **Dr. Gurunath Rao Vaidya**, Principal of AIGS and to **Prof. Ramakrishna C. N**, HOD, Dept. of Computer Applications. With utmost thanks and dedication, we would like to thank our guide **Prof. Shruthi H K**, where she was aside in every step of work that we have done and with some important advices and corrective measures.

We would also like to extend our thanks and gratitude to every faculty of BCA Department and to our family, inmates and friends who were concerned for the project.

Thank you everyone.

**Anubhav Lal (R1920620)**

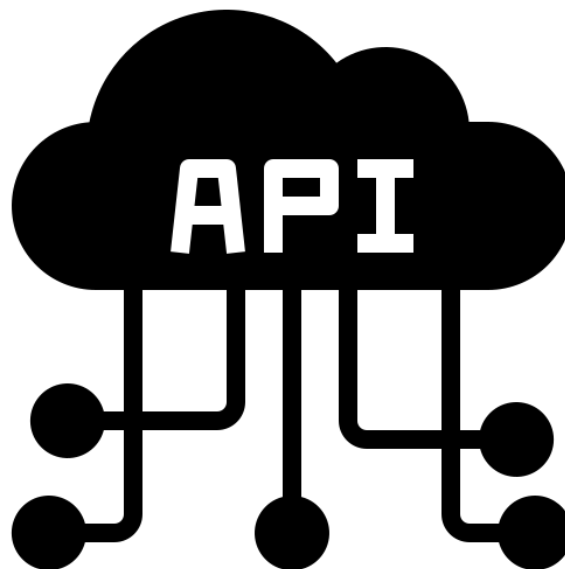
## ABSTRACT

**“Movie Recommendation Engine”** is a web-based project/application. The main objective of this project is to build an application which recommends movies and tv series. It is an API-based approach to filtering or predicting the users’ film preferences based on based on the genres selected by the user. It’s an advanced filtration mechanism that predicts the possible movie choices of the concerned user and their preferences towards a domain-specific movie.

In this application the data using different algorithms and recommends the most relevant movies to users. It first captures the genres of a user and based on that, recommends products which the users might be likely to watch. If a completely new user visits this site, the site will not have any past history of that user.

So how does the site go about recommending products to the user in such a scenario? One possible solution could be to recommend the most watched movies, i.e., the movies which are high in demand.

Three main approaches are used for our recommender systems. One is Demographic Filtering i.e. They offer generalized recommendations to every user, based on movie popularity and/or genre. The System recommends the same movies to users with similar demographic features. Since each user is different, this approach is considered to be too simple. The basic idea behind this system is that movies that are more popular and critically acclaimed will have a higher probability of being liked by the average audience. Second is content-based filtering, where we try to profile the users, interests using information collected, and recommend items based on that profile.



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