**INTRODUCTION**

This is an end-to-end project where we have picked up a movie database, built a model on it and trained it to be a recommender system for movies.

A Recommender system is a class of machine learning that uses data to help predict, narrow down, and find what people are looking for among an exponentially growing number of options.

Scrolling through hundreds or even thousands of movies can be overwhelming. So here our model will recommend movies to the user based on the movie content he/she has been browsing or watching.

We will be using a content-based recommender system. Our model will recommend movies to users based on the content they've been browsing or watching. It's like having a personal movie assistant that understands your preferences and suggests films you're likely to enjoy. The goal is to keep users engaged by offering them relevant content, thus increasing the likelihood of them subscribing to a monthly or yearly plan.

All major online movie platforms like Netflix, Prime Video, and others rely heavily on recommender systems to keep their users hooked on their platform. By providing tailored recommendations, these platforms make it easier for users to discover a new content they love, ultimately leading to more subscriptions.

By contributing to this e-commerce channel of business, users get more options to choose from, making their movie-watching experience richer and more satisfying. Our model focuses on recommending movies based on the content users have viewed or browsed, highlighting their mood and preferences at that moment. It's all about enhancing the user experience and keeping them coming back for more.

**Project Flow**

We start by picking a dataset to extract data from to train the model. We will then preprocess the data to filter out the data based on the requirement to make a recommender system. We will then create a model and convert it to a website-based recommender system fulfilling the requirement of our Project in creating a Movie recommender model.

**DATASET**

We have taken TMDB 5000 movie dataset from Kaggle which is content based and contains data in form of various Genre making it ideal to create a Movie based recommender system.

Collaborative filtering. Eg, Amazon

Content based. E.g, Netflix

Hybrid. E.g, You Tube

The model considers factors such as the user's browsing or watching history, movie content, genre, cast, and plot to recommend movies tailored to the user's preferences.