**Synopsis**

**Group No: 2**

**Members:**

1. **Reema Agrawal (181500559)**
2. **Vivek Goyal (181500817)**

**Title of Project: Movie Recommendation System**

**Aim and Scope of the project:** People sometime feel difficult to choose from millions of movies. Moreover, the service providers need an efficient way to manage movies to help their customers by giving quality recommendation. Thus, there is a strong need of a good recommendation system.

**Expected outcome:**

To obtain recommendations for our users, we will predict their ratings for movies they haven’t watched yet. Movies are then indexed and suggested to users based on these predicted ratings.

**A detailed description of the Project:**

In this project, we will be designing, implementing and analyzing a movie recommendation system using machine learning and algorithms. The system will be trained on the dataset which contains ratings with respective movies and the genre so that the user can easily get the movies recommendation by their choice. The goal is to design a recommender system which provides movie names which they may like, based on the ratings that they previously watched. Every logged in user should have access to the recommender system. This project is beneficial for the user as well as the company. For users, they may find movies that they may like without consuming time and even they can encounter new movies which they like from the recommendations. For the company, they make the website more attractive, so they draw more users to the website and the system makes the users of the website spend more time online.

**Dataset:**

For our own system, we’ll use the open-source movies dataset from Kaggle .This dataset consists of 26,000,000 ratings and 750,000 tag applications applied to 45,000 movies by 270,000 users.

We will use three columns from the data:

• UserId

• MovieId

• Rating**.**

Link: https://www.kaggle.com/rounakbanik/the-movies-dataset

**Applications:**

* Predict the future behavior based on past data through a multitude of techniques.
* Movie recommender systems support users in accessing their popular movies by suggesting similar users or movies from their past common ratings.