**AI Project**

on

**Sentiment Based Movie Recommendation System**

**INT 404**

**Submitted By – Submitted To-**

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A picture containing drawing

Description automatically generated

# **Introduction**

The Sentiment Based Movie Recommended System shows the recommended movies based on the emotion or the sentiment entered by the user. For example if the user enters “Sad” then the movies based upon this sentiment will be shown to the user.

The resource used for searching the movies used is Imdb which hosts a large number of movies, their reviews and sorted according to various searchable options.

The entered emotion or sentiment entered by the user is matched with the category supported by the database and then using web scraping movies related to the emotion is displayed to the user.

## **Working of System**

A picture containing bird

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A screenshot of a cell phone

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# **Module Distribution**

1. Web Scraping Module – Shivam

Web scarping is used to extract data from the websites using https requests. This module is responsible for collecting the data about movie names requested according to the user.

Requests from library http is imported for the use of web scraping. It helps in defining the precise url from where the data needs to be extracted.

2. BeautifulSoup Module – Rishabh

It is one of the many modules used in Artificial Intelligence. It was used in our project to extract the title of the movies from the data extracted from the website. Data extracted is large and to get the information we need we need to use beautifulsoup. It extracts the title of movies from the extracted data using regex.

3. Sentiment Based Module – Anish

To get the movies related to the sentiment or emotion entered by the user we need to define that emotion to a suitable word which can be searched or queried. Each emotion is referred to its own unique searchable word.

Such as user enters “Sad” then while searching the queried word used is drama which is a category which can be queried on Imdb. Like this other emotions are matched accordingly.

4. Driver Function Module – Harsh

This module is responsible for the working and functioning of all the modules and the whole code. It is also responsible for the input from the user asking to enter the emotion. This also defines the structure how the result will be displayed and how much. For now it is set to display 4 movies according to the emotion entered by the user.