

Mini Project: Team 30 Title: MASS Recommendor

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Problem Statement :

- People tend to look for new and different movies, shows based on what they have watched previously.
- They get carried away by wrong recommendations given by the friends or relatives and regret asking their recommendation.
- So the problem statement is to build a ML based system which recommends movies, series and shows that is expected to be appropriate and it is liked by the user.

The background is a dark, almost black, abstract composition of overlapping geometric shapes, primarily triangles. Several thin, glowing golden-yellow lines intersect across the frame, creating a sense of depth and movement. The lighting is dramatic, with the glowing lines providing the primary source of illumination against the dark background.

Implementation Plan

Proposed Solution:

- To provide recommendations of Movies, Anime, Series, Short films comprising the name MASS according to watchlist added by user.
- It stores the information given by the user regarding previously watched movies & series, recommends appropriate & precisely and protecting the data by providing Registration-Login system.
- It gives detailed information about the Name, Cast, Year, Ratings , No of people voted, Year along with Pictures and Teaser/Trailer videos(if available).

Procedure:

- User must register first.
- They can search movies/anime/series/short-films, add to watch list and watched list.
- Based on those list, we will use algorithms to recommend appropriate.
- Genres, Rating, Cast, Crew, Title of the movie will be involved in the recommendation process.
- We will keep track of the data user securely.
- Whenever data is updated, we will give them new recommendations.

Detailed Requirements :

Data Science:

1. Colab or any similar Python interpreter.
2. IMDb Dataset
3. TMDb Dataset
4. Pandas
5. Flask
6. APScheduler
7. Numpy
8. Sklearn
9. ML Algorithms- Cosine Similarities, Linear Kernel, TFIDF vectoriser, Count Vectoriser.
10. Parquet with Brotli Compression
11. Brain

Full Stack:

1. HTML
2. CSS
3. JS
4. nodeJS
5. mongoDB
6. ExpressJS
7. Mongoose
8. Handlebars
9. Bootstrap
10. Bcrypt
11. Brain

Solution:

- Front-End:

- Built the website with *Home, Search Bar, Recommendarator* at the top with *Sign up* and *Login* option.
- Sandwich Menu consists of *About, Services, Contact Us*.
- Using *drop down option*, user can choose to show *movies, anime, series* and *short-films*.
- User can *sort, order* and choose *count* to be shown in a page.
- User can register using Sign Up option and Login with the same credentials.
- User can add list to either watched list – containing all those watched already by the user and watch list- whatever user wanted to watch in the future.
- For each movie viewed, its *Movie Title, Released Date, Popularity, Rating, Trailer Link* which will directly open the video on our website, *Plot* of the selected movie, *pictures of Cast and Crew* involved in the movie for detailed representation to the user.

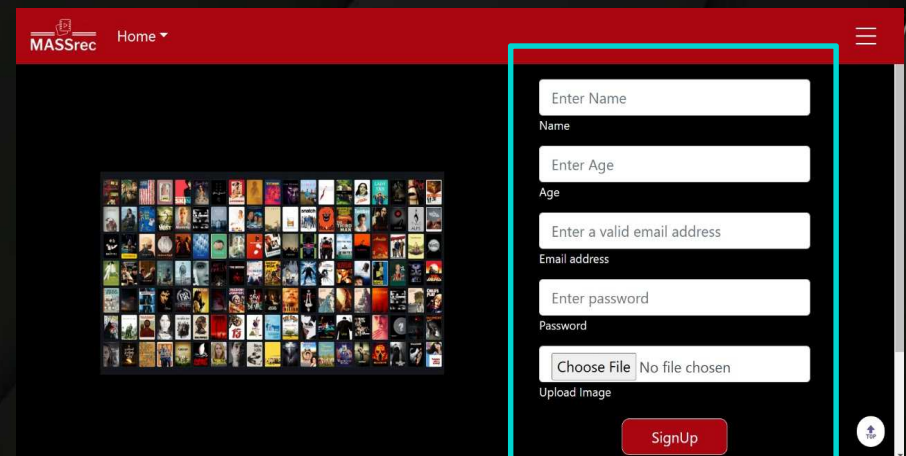
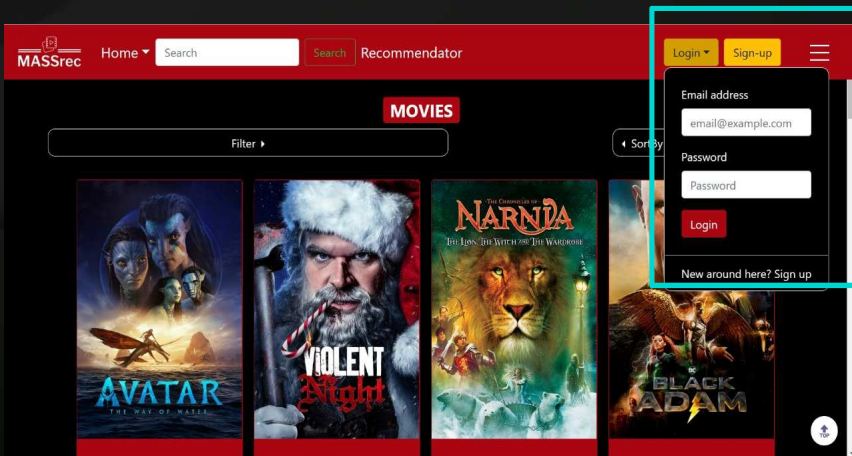
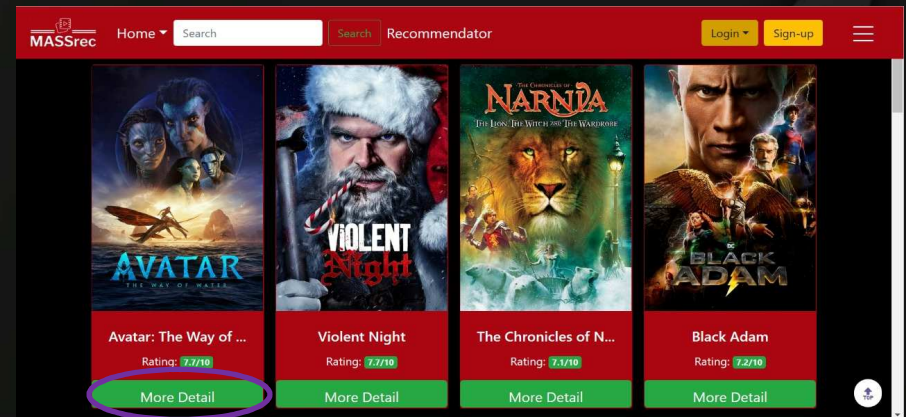
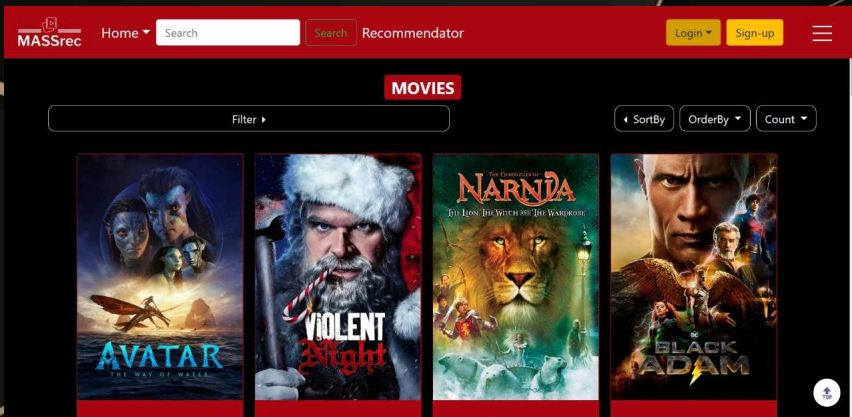
Solution:

- Back-End:


- Using iMDB database, we have derived required information such as *Vote Count, Vote Average, Ratings* of a movie or series.
- Using TMDB- database, we have derived required information such as *Cast, Crew, Keywords, Movie Providers, Movie Posters* and *Trailer links* (if available). Updation of data dynamically by getting *Changed* data.
- We set up *python server* which will take all the data, *filter* it properly to remove all unnecessary data, *compression* by *Brotli Parquet method* and *send* it to the main website for display.
- Using *two devices*, where one is used for *accepting API calls* and *responding* with suitable data with the help of *Parent-Child server* and the other device is the *show the website* with all the data collected.
- Whatever movies which will be added to the watched list and watch list by the user will be taken based on which the recommendation happens, also keeping in mind that the watched movies are not suggested again.
- We are using *ML Algorithms* such as *Cosine Similarities, Linear Kernel, TFIDF vectoriser, Count Vectoriser*.

The background is a dark, almost black, abstract composition. It features several large, overlapping geometric shapes, possibly triangles or polygons, in varying shades of dark grey and black. Thin, glowing golden-yellow lines intersect these shapes, creating a sense of depth and movement. One prominent line runs diagonally from the upper left towards the center, while another runs from the lower right towards the center. The overall effect is modern and sophisticated.

Output Screens



MASSrecHome



Enter a valid email address

Email address

Enter password

Password

Login

GoBack



Violent Night

Released: 2022-11-30

Popularity 4379.384


Rating: 7.7/10

Trailer Link

Plot

When a team of mercenaries breaks into a wealthy family compound on Christmas Eve, taking everyone inside hostage, the team isn't prepared for a surprise combatant: Santa Claus is on the grounds, and he's about to show why this Nick is no saint.

GoBack



Violent Night Movie Clip - Caught Hidin...

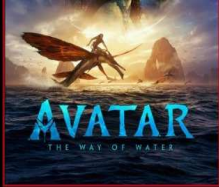
Watch later Share

Watch on YouTube

When a team of mercenaries breaks into a wealthy family compound

prepared for a surprise combatant: Santa Claus is on the grounds, and he's about to show why this Nick is no saint.

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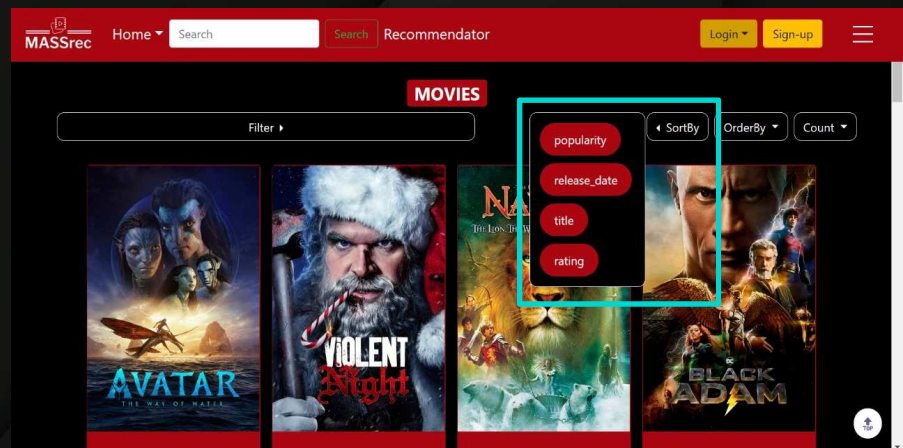
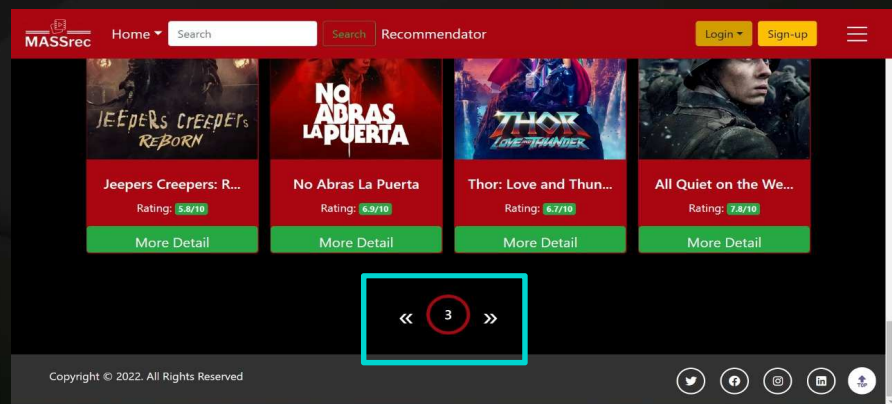
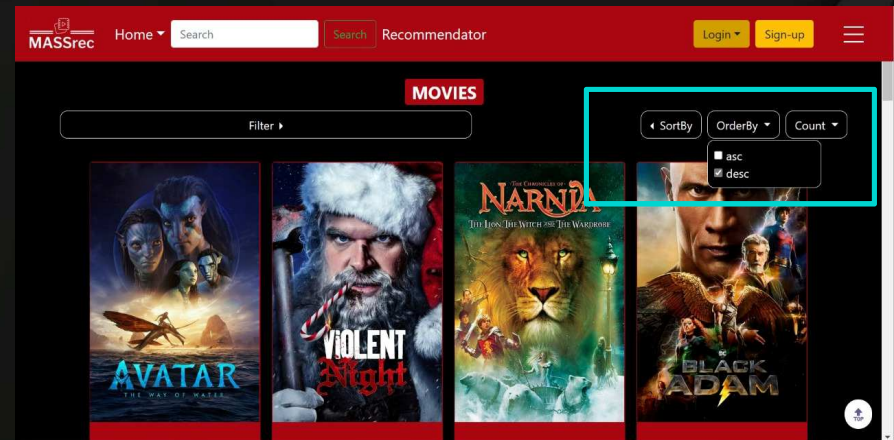
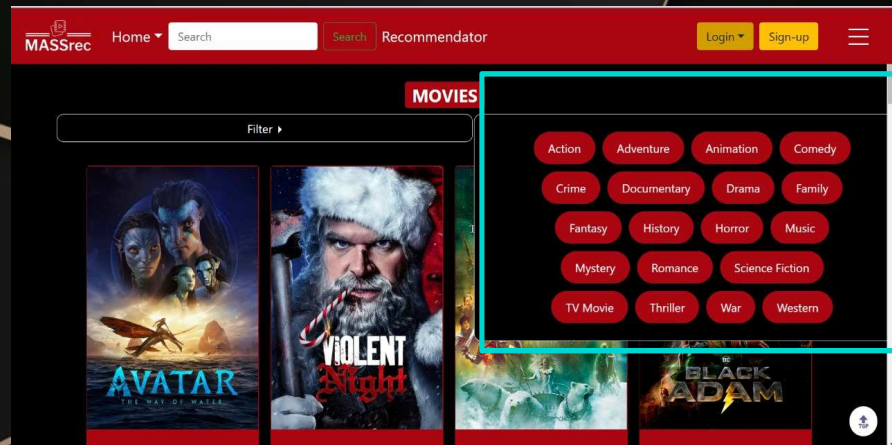
Trailer Link

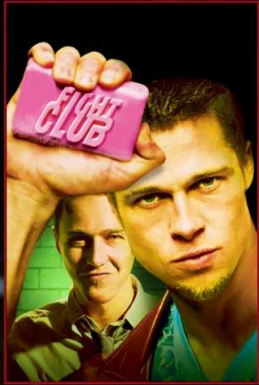
Plot

Set more than a decade after the events of the first film, learn the story of the Sully family (Jake, Neytiri, and their kids), the trouble that follows them, the lengths they go to keep each other safe, the battles they fight to stay alive, and the tragedies they endure.

Movie Cast

	NAME: Sam Worthington CHARACTER NAME: Jake Sully		NAME: Zoe Saldana CHARACTER NAME: Neytiri		NAME: Sigourney Weaver CHARACTER NAME: Kiri
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Fight Club

Released: undefined

Language: en

Rating: 8.428/10

[Trailer Link](#)

Plot

A ticking-time-bomb insomniac and a slippery soap salesman channel primal male aggression into a shocking new form of therapy. Their concept catches on, with underground "fight clubs" forming in every town, until an eccentric gets in the way and ignites an out-of-control spiral toward oblivion.

With Background Poster

Without Background Poster



범죄도시4

Released: undefined

Language: ko

Rating: 0.0/10

[Trailer Link](#)

Plot



Here are some recommendations for You 😊

<p>千と千尋の神隠し</p> <p>Rating: 8.5/10</p>	<p>Schindler's List</p> <p>Rating: 8.566/10</p>	<p>Pulp Fiction</p> <p>Rating: 8.492/10</p>	<p>Forrest Gump</p> <p>Rating: 8.482/10</p>
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<p>千と千尋の神隠し</p> <p>Rating: 8.5/10</p> <p>Trailer Link</p>	<p>The Country Girl</p> <p>Rating: 7.107/10</p> <p>Trailer Link</p>	<p>Anaconda 3: Offspring...</p> <p>Rating: 4.8/10</p> <p>Trailer Link</p>	<p>The Shawshank Redem...</p> <p>Rating: 8.7/10</p> <p>Trailer Link</p>
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