Project 350 Idea submission

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Project Title: ClipTalk

A Review and Recommendation Hub for Entertainment

Problem Statement:

In today's entertainment world, there are a huge number of movies, web series and books available across different platforms. So, to choose what content to read and watch can be overwhelming to see the least . generally users are overwhelmed with unreliable recommendations, some contents are forcefully promoted by certain platforms. Sometimes a user needs to scroll to various platforms just to choose what to watch or read. It is also difficult to get acquainted with like-minded individuals to share and discuss interests with existing platforms.

Objective:

This platform is designed to change how people discover and enjoy books, movies, and series. *ClipTalk* is a web application which combines personalized and Al-driven recommendations including social interactions, and authentic reviews to create a seamless entertainment experience. It also helps to filter recommendations based on specific mood, genre, language, actor, directors, authors etc across different platforms. it will allow users to post their personal review on a specific content. Also watch and comment on other peoples reviews to make a decision whether to consume that content or not and also to connect with like minded peoples.

Target Audience:

- 1. **Readers, Series and Movie Binge-Watchers:** People who are passionate about entertainment and want personalised recommendations.
- 2. **Casual Users:** Those people who need help finding good content quickly without wasting time on repetitive searches.
- 3. **Social Entertainment Enthusiasts:** Individual people who like to enjoy sharing opinions and connect with others over their favorite media.

Use case:

- **1.User profile:** Users will be able to create their own account and set it up with their own preference of movies, books and series. They will be able to give preference on specific mood, genre, actors, directors, authors etc.
- **2.Product table**: Users can maintain their own ratings and publish personalised reviews of previous movies , books and series.
- **3. Recommend**: Users who want to explore new content will be able to take help from the AI to recommend them best reviewed, most liked contents based on their previous ratings,

reviews and interactions with other people reviews. They can also filter the recommendation based on specific needs.

- **4** .Interaction: Users can see other users' profiles, their reviews and comment on their reviews.
- **5. Cross-platform Interaction**: Users can connect with various platforms to gain content to share their thoughts about it. Like: Goodreads, Netflix, Amazon etc.

Technology Stack:

Frontend: HTML, Tailwind CSS, React.js

Backend: Node.js, Express.js Database: MOngoDB, Redis Machine Learning Model:

- 1. **Collaborative Filtering:** Suggests personalized books, movies, and series based on users with similar preferences.
- 2. **Sentiment Analysis**: Analyzes the tone of user reviews (positive, negative, neutral) to improve recommendations.
- 3. **Natural Language Processing (NLP)**: Summarizes reviews, identifies themes, and tags content for easier discovery.
- 4. **Dynamic Clustering**: Groups users with similar interests to improve recommendation accuracy.
- 5. **Real-Time Personalization**: Updates recommendations instantly based on new user actions
- 6.**Frameworks:** TensorFlow.js or PyTorch for collaborative filtering and NLP tasks **Deployment:**
 - 1. Docker for containerization
 - 2. Deployment on AWS/GCP/Azure

Version Control:

1. Git and Github for source control

Conclusion

ClipTalk is a modern, feature-rich web application combining software engineering and machine learning principles. Its interactive, Al-driven features will challenge and showcase your skills in full-stack development, data modeling, and algorithm implementation.