ABSTRACT

The focus of this project is Movie Recommender, an intelligent movie recommendation website that aims to transform the user experience of finding and selecting movies. The main goal is to provide a highly personalized and accurate recommendation system that simplifies the tedious task of selecting movies from large databases. By leveraging advanced machine learning algorithms and collaborative filtering techniques, Movie Recommender aims to understand and adapt to individual user preferences to create a customized and enjoyable movie journey.

One of the core goals of the project is to establish a robust user profiling mechanism. This includes analyzing user behavior, including viewing history, ratings, and implicit feedback such as genre preferences and viewing time. Through this comprehensive profiling, the system aims to identify complex patterns of user preferences and lay the foundation for accurate and personalized movie recommendations. To improve recommendation accuracy, Cinemax Recommender integrates content-based filtering, collaborative filtering, and deep learning models.

Content-based filtering recommends movies with attributes similar to a user's preferences, while collaborative filtering leverages the collective preferences of similar users or items. By integrating deep learning models such as Neural Collaborative Filtering, the system can capture complex patterns within user behavior and movie features, resulting in more refined and relevant recommendations. You can Recommendation diversity is an important aspect, and Movie Recommender achieves this through a hybrid recommendation system.

This approach combines the best of both content-based filtering and collaborative filtering, ensuring that users receive a diverse selection of movies spanning different genres, directors, actors, and plot keywords. Real-time adaptability is another important feature of recommendation systems. Continuous updates of the system take into account the latest additions to the movie database and ensure that users are presented with the latest relevant options.

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