

Hybrid Movie Recommendation System

Title: Hybrid Movie Recommendation System

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Abstract

This project presents a Hybrid Movie Recommendation System that combines **Content-Based Filtering** and **Collaborative Filtering** in equal proportion (50%-50%) to generate personalized movie suggestions. The model uses metadata such as genres, language, and movie overviews, along with user–movie rating interactions, to improve accuracy and relevance. The system is trained on the Indian Movie Dataset and implemented using Python and the LightFM library.

1. Introduction

With the growing number of movies, finding relevant content is a challenge for users. Traditional recommendation methods rely either on movie metadata (content-based) or on user ratings (collaborative). This project bridges the gap by combining both approaches into a hybrid model, enhancing personalization and recommendation diversity.

2. Dataset Description

- **Source:** [Indian Movie Dataset / Mention exact source]
- **Total Movies:** 2851
- **Total Ratings:** 763
- **Key Features:** `movie_id`, `title`, `genre`, `language`, `overview`, `vote_count`, `vote_average`, `user_id`, `rating`.
- **Preprocessing:** Removed duplicates, handled missing values, normalized text data, encoded categorical features.

3. Methodology

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