

a Movie Recommendation System

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Introduction

- With growing consumerism and increasing popularity of the internet, buyers are being presented with an increasing range of products.
- Offering relevant products is important for customer satisfaction and company revenues.

Problem Statement

- Obtaining recommendations from trusted sources is a critical component of the natural human decision-making process.
- Recommend relevant content from a huge collection of products.
- We aim to build a movie recommendation system.

Methodology

- Content-based filtering
 - Recommend items based on similarity between items and user's preferences
- Collaborative-filtering
 - Recommend items are those preferred by similar users

Methodology

- Different similarity measures
 - Pearson correlation, Euclidean distance, Tanimoto coefficient
- MovieLens data set
 - 100K ratings
 - 1M ratings
- Netflix Prize data set is not available online.

Evaluation

- Precision
 - How many of the recommended items are close to users' preferences?
- Recall
 - How many of the relevant items are recommended to user?
- Root Mean Square Error
 - Are predicted user ratings close to actual ratings?



Thank you
Questions?