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Session Problem Statement - Movie Recommendation System Part 1

Context

Online streaming platforms like Netflix have plenty of movies in their repository and if we can build a Recommendation System to recommend relevant movies to users, based on their historical interactions, this would improve customer satisfaction and hence, it will also improve the revenue of the platform. The techniques that we will learn here will not only be limited to movies, it can be any item for which you want to build a recommendation system.

Objective

In this case study, we will build various recommendation systems:

- Knowledge/Rank based recommendation system
- Similarity-Based Collaborative filtering
- Matrix Factorization Based Collaborative Filtering

To demonstrate the above techniques, we are going to use the ratings dataset.

Dataset

The ratings dataset contains the following attributes:

- userId
- movieId
- rating
- timestamp

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