Readme

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# Problem

The problem to solve is to develop a movie recommendation system based on pre-collected user review data. A dataset of 994 people’s review ratings on 1664 movies were collected and processed. It is assumed that movie to be recommended should have similar review rating distribution among sampled population.

# Method

A movie matrix (MovieMat) is assembled based on collected data. Each column of the matrix represents the review pattern of all reviewers of a certain movie. For each column, the correlation coefficients are calculated with all other columns and the columns with highest coefficients are recorded and the movies represented by these columns shall be taken as recommended movie.

# Results

The interactive interfaces are used for user to input any movies for recommendation. The fuzzywuzzy module is used to map user input to one of the movies in MovieMat, and then the interactive interface shows the recommended movies. A sample input/output result is shown as below.

A screenshot of a computer

Description automatically generated