

Abstract

Most of people love watching movies. When choosing genre for movies that they watch, people have their own different interest. They usually choose a movie genre that they like. Somehow, to choose a movie from many options of movies is not that easy. They can't predict whether the movie has genre like what they expect or not. To solve the problem, recommender system is the right way to be built for giving any movie recommendations according to genre they are looking for.

As one of solutions, this thesis build a recommender system based on content filtering that implements Frequent Pattern Growth Algorithm. This system will mine combination of movie genres from each movie that has been watched or rated by user in order to generate association rules. According to the association rules, system will give some movies as recommendation which have similar genre with the association rules. Because this recommender system will be built based on content filtering, so the movie recommendations are only valid for one user, without considering movies which have been watched by other users.

The test result on recommender system that has been built indicates the good performance. It can be proved with the increasing of precision, recall, and f-measure. In this case, the most influential parameters are support and confidence. Both of those are important in generating association rules.

Key words : movie, recommender system, content-based filtering, FP-Growth, association rule, support, confidence