

Abstract

The advance of communication and information technology have changed every aspect of life. By using information and communication technology everyone can have easy access to information. But it will be a problem if the information we got isn't the one we need.

The purpose of this project is to analyze the result of prediction made by recommender system based on collaborative filtering using bi-polar slope one algorithm to predict the rating. In this project we will use three data splitting technique. The first technique is to split the data using user's mean. The second one is to split the data using a value that was decided before. And the last one is to let the system split the data so that it will be balanced, this technique is called auto balance.

Prediction accuracy produced by auto balance shows a better result than the other two technique when used against a relatively balanced data.

Keywords: *recommender system, collaborative filtering, slope one algorithm*