

## ***Abstract***

Recommender system is a system that can be used to predict a items in this case in the form of movies, based on the information obtained from the user, so that the recommendations based on the user's profile was obtained. Collaborative filtering in recommender system approach is the recommended items by finding similarity between users or between items on the basis of the information already exists on the user or other items.

This final task implements and analyzes the performance of class-based collaborative filtering in recommender system. Class-based algorithms is the development of user-based collaborative filtering. Class-based algorithms to predict the rating an item value by combining two concepts, namely matrix user-class and instance selection. So the prediction results obtained shall become items maximum. Data used is data set movielens. Factors that are used in the analysis are the user frequency threshold, given  $k$  and  $N_{\text{common}}$ . The final task is to analyze the level of accuracy prediction rating produced by the method of evaluation of MAE (Mean Absolute Error).

Factors such as user frequency threshold, the given  $k$ , and  $N_{\text{common}}$  affecting the level of accuracy prediction rating based its MAE. The application of user frequency threshold and the given  $k$  on algorithms class-based tend impact better of the MAE than not applied it.

**Keyword:** *recommender system, collaborative filtering, class-based, instance selection, matrix user-class.*