Abstract

In the term of business, prediction of demand of a product has become important part which very useful for stakeholder of company. It's caused by getting accurate prediction, management of resources can be managed well, moreover future demand can be prepared efficiently. In this final project, there is an axperiment about predicting revenue of film. When prediction has only use history data, the prediction is not accurate . Naturally, when someone will go to the theatre, they should get enough information by reading *review* of film. According to the condition, it gets an idea to use *review* of movie to predict revenue, moreover from sentiment analysis point of view as a factor that affect revenue of movie.

As a result of experiments that use data history, dokumen *review* shows that the prediction has become better. Beside that, there is another dactor that affect prediction of revenue. When we use document of *review* that posted few weeks before prediction, surprisingly the prediction going worse. Finally after some experiment that has been done, we obtain the best model of prediction that's 0.09322 . That use 3 weeks of data history, 1 week of documents posted and 4 for number of *hidden sentiment*.

Key word : prediction, revenue, document *review*, sentiment