

Abstract

Weather forecast today has become a necessary thing for many people in the world. In predicting rain weather data processing is essential. But the problem, weather data that is increasingly growing cause the accumulation of data so that the data processing needs further treatment. Therefore, the use of data mining is used to solve this problem. Association rule mining is one of data mining methods that can identify similarity relationships between items. In this final project will try to implement the Association rule mining in hopes of associative rules generated can become a reference in weather forecasting.

The final task is performed by three main stages, namely: 1) to analyze high frequency patterns using algorithms priori; 2) the establishment of an association rule (association rule); 3) test the strength of the rule which is formed by calculating the ratio elevator on each rule. The dataset used is the climatological data taken from BMKG station 1st class geophysical Bandung. The end result of this thesis in the form of rules of association (association rules) in which these rules can be used as a reference in predicting the weather is rain or not rain for the next day.

Keywords: *data mining, association rule, apriori, rain forecast*