ABSTRACT

Agriculture is one of the important sectors for human life, because most of human needs come from agriculture, especially food needs. Over time, food prices become unstable. This condition gives a big impact on both the community and farmers. The instability of the price of an agricultural commodity can be caused by several factors. One of the factors is due to supply and demand changes. Weather factors also become one of the factors that cause price changes because the weather plays an important role in the process of planting. Therefore, in this final project, forecasting the price of agricultural commodities based on weather information using Data Mining classification method by implementing Bayesian Network algorithm that classifies data into economic and not economic classes. From the test results, Bayesian Network is able to forecast and classify the price well. The average accuracy obtained is 83.5% on testing data with the precision, recall, and F1 score values are 0.92, 1 and 0.96, respectively.

Keywords : price forecasting, classification, data mining, Bayesian Network