ABSTRACT

Bandung regency is one of Indonesian city that the majority of the people is a farmers. The farmers need weather information to determine the planting season. Weather forecasting become an orientation in agriculture sector to determining the beginning of planting season, and also quality and quantity of their harvest. One of the factor that effecting the harvest is rainfall. In this research, we make a classification model using C4.5 algorithm for rainfall forecasting at Bandung regency. Besides to optimize the gain ratio on data splitting used rule post-pruning method. We used weather data from BMKG (Meteorological, Climatological, and Geophysical Agency) in 2005 to 2016 period. The result accuracy testing without pruning is 60.00% and with pruning is 93.33%.

Keywords—rainfall, C4.5 algorithm, Pruning, Data mining.