

## ABSTRACT

Indonesia is a country with many tribes. From various tribes earlier, Indonesia has many languages of their respective regions as a differentiator or identity of the region. In this case speech recognition is very important to facilitate the introduction of the language used. Speech recognition has many methods as learning, one of them using Deep Learning.

Deep learning is a model of artificial neural networks that have recently started to develop. The most common approach used to implement Deep Learning is the Graphical or Multilayer Representation method, or Multilayer Graphical model such as Belief Network, Neural Network, Hidden Markov, and others. Deep Learning has shown good results in improving accuracy. Voice recognition or other similar cases. Therefore in this study the authors will implement Deep Neural Network on Speech Recognition to classify the Sundanese language of the Northern dialect.

From the results of research conducted, obtained accuracy by changing each parameter of 100%. After obtaining the ideal parameters are classified with the ratio of the training data: the test data data is 50%: 50%, 60%: 40%, 70%: 30%, 80%: 20% and 90: 10%. From the test with the ratio, it is concluded that, the more train data the better the accuracy obtained.

**Keyword:** Deep learning, Speech Recognition, Deep Neural Network