

ABSTRACT

Indonesia is a country with many ethnic and cultural ethnicities. Of the various ethnic groups, Indonesia has many regional languages as distinctive and distinctive languages of each region. In this case, to make it easier for everyone to understand the essence of each language from various kinds of tribes and regions in Indonesia, speech recognition is very important. Speech recognition has many methods as learning, one of which uses Deep Learning.

Deep learning is a model of artificial neural network that has recently been developed. Deep Learning has shown good results in improving speech recognition accuracy or other similar cases. Deep Learning itself has a variety of approaches, but in this study the authors only implement one of the approaches of Deep Learning, namely the Deep Neural Network in Speech Recognition.

The DNN (Deep Neural Networks) algorithm is one of the neural network-based algorithms that can be used for decision making. This application is almost the same as the Google Voice and Translate application in general, but in the features made in Google Voice and the speech recognition translation it can only be in the general language, each country cannot be in the local language of each tribe. So, in the application that will be made later the application can determine the recognition of the language of each tribe and region but in the application will only focus on the work of the Javanese language dialect. In this application the input in the form of the language of the Javanese dialect will be processed into an output in the form of Javaanese dialect text. Not only recognize one Javaanese dialect but also can determine the Javaanese dialect from which area is produced.

Keywords : *Deep Learning, Speech Recognition, Deep Neural Network, dialect.*