

Abstract

Information and Technology has been growing very fast and make some new ideas and research to produce something that would help human's work become simpler, easy and fast to be done. One is research on speech recognition system that can recognize human speech. It has actually been done a long time ago, but still continues to Etty to get best result in the degree of accuracy.

In Indonesia, research on speech recognition is still slightly, and smaller compared with other countries such as United States, Japan, Chinese, or France.

In this final project will try to build automatic speech recognition in Indonesian language that will be implemented into an application embedded in micro device-based android operating system such as ponsel. The reason is because of Indonesian people become familiar with mobile device such as ponsel, and android become one of the most famous mobile operating system in the World.

Due to the limited ability of device such as processors, and RAM, in this final project will try to analyze how to build good speech recognition system on android micro device, such as the number of word dictionary that should be used, sentence recognition method, and what is the minimum requirement to implement this *indonesian speech recognition* application.

Keywords : *Indonesian speech recognition, android, micro device, performance*