Abstract

Along with the times, came the idea to make computers understand human language. Instructions that were previously only using machine language, can now be instructed using human language. Natural language processing is a continuous process of many phases. Hidden Markov Model is one of the initial processes in a series of processes that exist in natural language processing. To improve performance in research in the field of natural language processing, it is necessary to develop a sentence POS Tagging that can be used easily. To create a sentence POS Tagging, probabilistic modeling and calculation techniques are needed to determine the type of words from each sentence. Hidden Markov Model is one of probabalistic statistical modeling and calculation techniques with a high degree of accuracy. Recommended sentences using the Hidden Markov Model Method make it easy for users to find out the tag results provided by the system. The results obtained from the construction of this system is score of macro average precision is 92%, weighted average precision is 85% and accuracy value that is equal to 81% with the Hidden Markov Model.

Keywords: Hidden Markov Model, Indonesia language, treebank, tagging,