Abstract

Data mining implementation in Intrusion Detection System based on the data mining ability to extract the important information from large dataset. This issue correlated with so many data in Intrusion Detection System problem, then the hidden pattern that give the accurate information about Intrusion or attack can be known.

In this final project has been implemented the usage of *Hidden Markov Model* method to develop the misuse *Detection* model which is one of approaching method to develop *Intrusion Detection System. Hidden Markov Model* is the algorithm that implemented the classification functionality by using statistic approaching to predict member in the class. This final project inspired by the successful of *Hidden Markov Model* in speech recognition.

Keyword: Hidden Markov Model, *Intrusion Detection System*, misuse *Detection* model, *data mining*.