Abstract

Learning progress is student's evaluation value over learning targets in intended time. This learning progress is also a value or skill to expect from a student in every academic value which is achieved over specific time and recorded every semester in a progress report book called rapor.

This final project uses Backpropagation methods and *traingda* network training to modelize Artificial Neural Networks, which will be used to predict new high school student's achievements in the next semester.

Data used for training, testing, and predicting is high school from Jombang, SMUN 3 Jombang from year 2005-2006.

From the preliminary test of backpropagation Artificial Neural Network model, *traingda* training function is more accurate and fast compared to backpropagation Artificial Neural Network model using traingdx training function.

Keyword : training, testing, predicting, Backpropagation, Learning rate, epoch, goal.