

ABSTRACT

Nowadays, information about the state of a place becomes very important. This is because modern society takes into account the efficiency of time in living the daily life. In addition, the current pandemic situation requires the public to avoid the crowds as much as possible. Restaurants are a frequently reviewed place in preventing pandemic transmission. With the limitation of operating hours as well as the number of restaurant visitors, information about the density of a restaurant becomes very important. The need for such a community, makes this research focused on predicting the density of a restaurant an hour later. Based on existing survey data and literature data, the system built using Feedforward Neural Network artificial intelligence architecture and then trained with Backpropagation algorithm produces 97.8% accuracy with literature data.

Keywords: *GPS (Global Positioning System), IDP (Indoor Positioning System), Neural Network, Feedforward Neural Network.*