

ABSTRACT

Indonesia is the largest island country that has oceans and located between two continental plates which cause frequent earthquakes. Earthquakes on the ocean floor can cause tsunami that can harm humans both materially and non-materially and even take lives too. Therefore, with a very large sea area, of course the higher the sea waves, the threat of natural disasters such as tsunami, storms and high tide waves will occur. The threat of sea disasters is certainly very troubling for fishermen and coastal communities. Based on this problem, a system is needed to monitor and detect conditions in the sea. The system designed uses the CART method to provide predictions for fishermen and the community based on parameters connected to the Internet of Things. The results obtained from this project were the system running 100% as planned, and CART algorithm has a performance on each data partition with an accuracy of 98% to 100%.

Keyword : *Sea wave, CART, Internet of Things, web.*