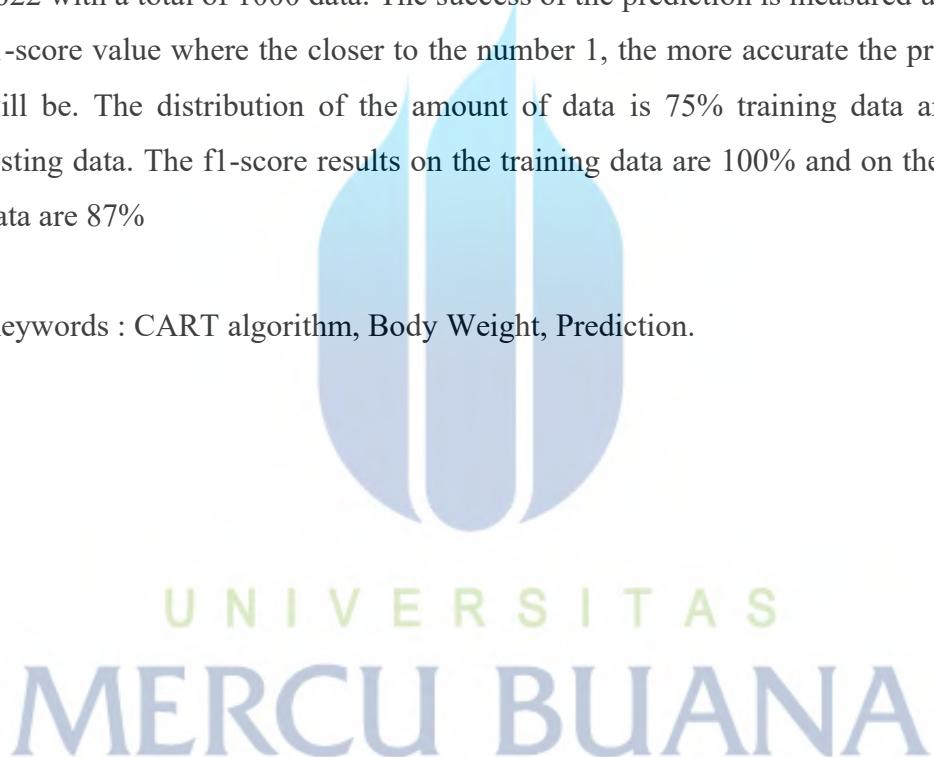# ABSTRACT

Excess body weight is not good for health so it can have an effect on various diseases within yourself. The purpose of this study was to predict body weight based on the criteria of height, gender, age, and weight using the Classification and Regression Tree Algorithm, which is one of the data mining method techniques. The data used is Let's Yoga Jiwanmukthi member data from 2021-2022 with a total of 1000 data. The success of the prediction is measured using the f1-score value where the closer to the number 1, the more accurate the prediction will be. The distribution of the amount of data is 75% training data and 25% testing data. The f1-score results on the training data are 100% and on the testing data are 87%

Keywords : CART algorithm, Body Weight, Prediction.

ABSTRAK

Berat badan secara berlebih sangatlah tidak baik bagi kesehatan sehingga dapat berefek terhadap berbagai penyakit didalam diri. Tujuan penelitian ini adalah untuk memprediksi berat badan berdasarkan kriteria height, gender, age, dan weight menggunakan Algoritma Classification and Regression Tree yang merupakan salah satu teknik metode data mining. Data yang digunakan adalah data member Let's Yoga Jiwanmukthi dari tahun 2021-2022 dengan jumlah data sebanyak 1000 data. Keberhasilan prediksi diukur menggunakan nilai f1-score dimana semakin mendekati angka 1 maka prediksi akan semakin akurat. Pembagian jumlah data sebesar 75% data training dan 25% data testing. Hasil f1-score pada data training sebesar 100% dan pada data testing sebesar 87%.

Kata Kunci : Algoritma CART, Berat badan, Prediksi.