

ABSTRACT

The Baby Body Length Measurement System using machine learning and Open CV methods is a system designed to make it easier for Posyandu officers to take measurements of the baby's body length, where this system will measure the baby's body length using a camera, and is assisted by an image processing library, namely Open CV , and to measure the length of the baby's body using Machine Learning, namely the Linear Regression method, and the measurement data will be sent to a Web application so that the baby's mother can monitor the growth and development of her baby. The system built has an average error with a value of -1.42 in the condition of the lamp with a power of 40 Watt and in the light of a lamp with a power of 11 Watt the average error is found with a value of -15.37 and at a distance of 64 cm the system can detect objects and perform measurement on the length of the object with an average measurement error of -10.6.

Keywords: Open CV, Image Processing, Machine Learning, Measurement of baby's body length, Posyandu