ABSTRACT

Every human being must have facial expressions, whether angry, happy, sad, shocked, or disgusted. Facial expressions are a form of non-verbal communication that can appear out of thin air without being able to be controlled in advance therefore if a person lies then it can be seen from the expression on his face. A person's facial expressions are divided into 2, namely macro expressions and micro expressions, macro expressions are single expressions that have meaning as they are, involve all parts of the face, and last for 0.5 to 4 seconds. This macro expression is usually issued by a person when he is alone, being among family members, friends, or people he trusts, while micro expressions are Facial expressions that only last very quickly, even only half a second, so it is very likely to be missed by the layman's eye. Micro-expressions can be a sign of the presence of feelings or emotions hidden by a person.

The system created in this study is a system capable of analyzing and introducing micro expressions. The output expectation of this system is automation in the analysis of micro expressions and the appearance of information on the success of micro expression analysis. The results of this study after testing the system made by setting the learning rate, epoch, and batch size parameters obtained an accuracy result of 67%.

Keywords: *Expression Recognition, Micro-expressions, CNN*