

ABSTRACT

APPLICATION OF DEEP LEARNING TO SOCIAL MEDIA DATA TO IDENTIFY ANOMALIES IN MENTAL HEALTH

The existence of social media allows individuals to communicate intensively with other individuals indirectly. How social media is used can represent a person's mental health. Mental health refers to aspects of a person's development, both physically and psychologically. To identify anomalies in mental health, we took from comments made by social media users on various video content in the mental health category uploaded on YouTube. We collected 23,581 data and 4821 data were ready to be used after going through pre-processing and data filtering. Data is processed using a Long Short-Term Memory (LSTM) artificial neural network. The model trained in this research had an accuracy of 98%, precision of 99%, recall of 97%, and F1-score of 98%. The model that has been created has also created a website using a python framework called streamlit so that it can be used publicly in the hope that people can indicate the mental conditions faced by other people.

Keywords: *Deep Learning, Mental Health, Websites, Social Media*