

ABSTRACT

The increasing prevalence of depression is a serious concern nowadays, with its detrimental impact on individuals' mental health and quality of life. In this study, an automated system to detect early signs of depression from social media posts using NLP approach with BERT linguistic model is designed. The purpose of this research is to develop a system that can effectively identify depression from X's social media posts. Data was obtained from X's social media with participants who had filled out the DASS-42 questionnaire, sentiment analysis of the interaction patterns of social media user posts using an NLP approach with the BERT linguistic model, and implementation of an automated system for depression detection. The results of this study show that the model can classify depression effectively and accurately, by achieving the highest accuracy of 81.82% and F1-score of 81.82%.

Keywords: Depression, NLP, BERT Linguistics, Automated System X.