

Depression Detection by Analysing Social Media Post of User

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***Abstract:** In recent times the problem of early depression detection is one of the most important challenges in psychology. Depression is a big mental health issue for people world-wide. There is no bound of age, gender and race for depression. For people it is easier to share their thoughts online on social networking sites than sharing thoughts in person. The main purpose of this paper is to detect depression in early stage and avoid help to avoid self-harm or letting close persons know about it. Depression is detected based on users posts on social media. Facebook, Instagram, Twitter are some mostly used social media sites for sharing thoughts. According to the report generated in 2019 estimates, about 280 million people worldwide have depression, including 5 percent of the world's adults and 5.7 percent of adults above the age of 60. Large amount of data is generated daily from social media posts. This data is collected by ubiquitous computing devices like smartphones, tabs, etc. Researchers are using this social media data for research like sentiment analysis, to spot trends, market mood analysis, etc. In this paper, we've got proposed a despair evaluation and suicidal ideation detection system, for predicting the suicidal acts that supported the volume of despair.[11] The gift examines ambitions to make the most device gaining knowledge of strategies for detecting a likely depressed Social Media person in his/her Posts. We leverage large-scale datasets with tweets to accomplish sentiment analysis with the aid of machine learning algorithms and a deep learning model, BERT for sentiment classification. With this model we will evaluate persons mental health.*

Keywords: Machine Learning, Natural Language Processing, BERT Algorithm, Depression, Classification, Social Media Post, Decision Tree, Sentiment Analysis.

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