

## AI-DRIVEN REAL-TIME PREDICTION OF ANXIOUS DEPRESSION FROM DYNAMIC SOCIAL MEDIA ACTIVITY

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*In this study, we present an ensemble model that can correctly detect anxious depression in real-time social media streams. Based on the linguistic and behavioural conventions, it was necessary to develop a five-entry device which is spoon fed by the specific anxiety lexicon. It is used to look for the corresponding mood shifts in the message and the irregular publishing behaviour of the users. The model is implemented as a combination of a multinomial Naïve Bayes, gradient boosting, and random forest classifiers with a majority vote. The framework is tested for 100 people's tweets and shows 85.09% accuracy in user classification, which is a good indication of its potential for prediction.*

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