

AI Based Suicidal Behaviour

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Abstract: *It is a web-based application that greatly assists the medical field. One of the leading causes of death worldwide is suicide, which is a serious problem with mental health. According to a number of studies in suicidology, emotional dysregulation is a factor that can lead to suicidal behavior. In the digital age of today, people frequently express suicidal ideation on social media platforms in order to seek assistance, compassion, or advice. Using machine and deep learning algorithms, the primary objective of this study is to classify suicide notes according to their emotional content. Utilizing these shifts as key indicators of suicidal ideation, we propose an innovative method for automatically identifying emotional changes in the content of a suicide note. The objective is to automatically determine whether suicide notes' latent emotional states and their classification as suicidal or non-suicidal are correlated. In order to deal with a variety of binary classification scenarios and analyze emotional patterns, we make use of a random forest model with term frequency, inverse document frequency, and term frequency.*

Keywords: Machine Learning, Term Frequency Inverse Document Frequency

