Hybrid Feature based Prediction of Suicide Related Activity on Twitter

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Abstract— Suicide is a disturbing general medical issue and increasing fatal every year around the world. This work naturally removed casual inactive subjects from online web-based life twitter and communicating self-destructive ideations. Right off the bat emotionally assessed the idle points and afterward comprehensively contrasted them with chance variables proposed by space specialists. As long-range interpersonal communication destinations have gotten progressively normal, clients have embraced these locales to discuss strongly close to home points, among them their considerations about suicide. The tweets are significant for investigation since information shows up at a high recurrence and calculations that procedure them must do as such under extremely severe imperatives of capacity and time. Right now, we can separate Emoticons and Synonyms Feature and utilized n-gram model which is a mix of Unigram, Bigram, and Trigram with half breed word reference for score computation. This model utilizing the casual points to anticipate the earnestness of the posts using machine learning algorithms. In this research, we also compare different approaches like SVM, NB, and RF.

Keywords: Tokenization, Affine, Lexicon, N-gram, Emoticons, SVM, KNN, RF

substance abuse all expect a contributing activity. Also, the passionate pressure brought about by tormenting, relational connections, what's more, accounts is additionally significant components [14]. In any case, these depictions of self-destructive ideation frequently catch a clinical perspective [19].

With the ascent in complexity and acknowledgment of the web informal organizations, people thinking about suicide have progressively communicated their self-destructive ideation in web discussions, tweets, and other social media [18]. The outcome is a tremendous synergistic portrayal of considerations and inspirations related to suicide. Right now, this article displaying methods to extricate casual inert themes from this information.

This model is an AI approach for extricating data from an assortment of data [22]. This methodology can be used to discover normal subjects present in online posts, for example, discouragement, medicate use, or savagery. The possibility of "sadness" may be caught by an assortment of related words, for example, "torment", "emotions", "dread", "stress", and "languishing" [19].