

Social Media Suicide Indication Detection

Project Background

In Indonesia alone according to WHO and Pusdatin Suicide rate in Indonesia is 0.71/100.000 population or on average 1.800 cases per year. Suicide has become a global issue which leads the UN to set up an SDGs to reducing the suicide rate by 10% by 2030

Goals

The main Goals are detecting, labeling, and preventing suicide or suicide attempts based on their social media activities. To help before it's too late!

Preprocessing

There are several functions that help the process including:

1. Case Folding
2. Tokenization
3. Stemming
4. Lemmetizer
5. Text Vectorization

Method

Neural networks offer a number of advantages, including requiring less formal statistical training, the ability to detect all possible interactions between predictor variables, and the availability of multiple training algorithms.

Accuracy

With 3 Epoch, and 65 Batch making Neural Network has 95.7% accuracy.

Output

The expected output of this project is to be able to detect Twitter posts that are indicated to have depression or suicidal thoughts which will be processed through classification and the results will be a percentage label according to what is detected.