National Institute of Technology Karnataka, Surathkal
Department of Computer Science and Engineering
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Title:

Stance Detection

Abstract:

Stance detection has been defined as automatically detecting whether the author of a piece of text is in favor of the given target or against it. In the third class, there are the cases, in which neither inference is likely. It can be viewed as a subtask of opinion mining. This project considers the more challenging version of this task, where targets are not always mentioned in the text data.This type of projects use some technologies in natural language processing including word to vector, word embedding, unigram language model and tfidf model. It also uses logistic regression model, linear regression model and LSTM model to predict the result.

There are many applications which could benefit from the automatic stance detection, including information retrieval, or text summarization, in particular opinion summarization.

Using this as foundation we are planning to build a model that automatically recognises the different targets (basically real world issues) using the same text data so that in the future the user need not mention the target explicitly. For Example: given a piece of text the model should be able to determine the target

Inputs:

The Input to this model will be the piece of text (like social media posts, article, news) and the target (issue to which the text is addressing). For the second scenario the input will be the only text data without any target.

Outputs:

Output for the first case will be the position of the text whether for or against or neutral. For the Second case the output will also include target addressed by the text.

Performance measurement criteria:

- The successful detection of the stance of the given text data.
- The expected output of the model should consider the emotion of the text data (like sarcastic posts in social media)
- The output should be measured against the different datasets except the dataset we used to train the model.