Project: Hate Speech detection using Transformers (Deep Learning)

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Problem description

Hate speech detection is a problem of sentiment classification. The task is to classify certain piece of text as the one with hate speech or not, by training deep learning model on labeled data.

The term hate speech is understood as any type of verbal, written or behavioral communication that attacks or uses derogatory or discriminatory language against a person or group based on what they are, in other words, based on their religion, ethnicity, nationality, race, color, ancestry, sex or another identity factor.

Data understanding

There are two csv format datasets in available:

- train.csv with id, tweet with text and label 1 for hate-speech and 0 otherwise
- test.csv with id, tweet with text

Data cleansing and transformation done on the data.

- 1. Normalize casing
- 2. Lower case
- 3. Remove URLs
- 4. Remove mentions
- 5. Remove special characters
- 6. Expand contractions
- 7. Tokenize sentences into individual terms, using tokenizers
- 8. Lemmatization
- 9. Remove stop words