Final Project – DataGlacier Virtual Internship 2021

Project Title: NLP - Twitter Hate Speech detection with Transformer (Deep Learning)

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Problem Statement:

Hate Speeches are taking over every media, social platform etc., The term hate speech is understood as any type of verbal, written or behavioural 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, colour, ancestry, sex or another identity factor. Designing a model to detect such speeches or posts on these platforms are getting complicated these days with increase in usage different languages.

Data cleaning and Featurization:

Data cleansing has been done using the beautifulsoup and regex libraries. Removed unnecessary words, symbols, and html tags. Also lowered all texts using the regex library.

Featurization has been done manually and also with torchtext library.

The manual featurization can be found on this notebook.

The featurization technique with torchtext library can be found here.

The data cleansing technique also listed on the both notebooks.