Project: Hate Speech detection using Transformers (Deep Learning)

Project Report

- **Name:** Christos Christoforou
- **Email:** christoschristoforou97@hotmail.com
- **Country:** United Kingdom
- **Specialization:** NLP
- **GitHub repo link:** http://github.com/cchristoforou97/Hate-Speech-Detection

Problem Statement:

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. In this problem, we will take you through a hate speech detection model with Machine Learning and Python.

Hate Speech Detection is generally a task of sentiment classification. So, for training, a model that can classify hate speech from a certain piece of text can be achieved by training it on a data that is generally used to classify sentiments. So, for the task of hate speech detection model, we will use the Twitter tweets to identify tweets containing Hate speech.

Project lifecycle and deadlines:

- **Week 7:** Data collection & Problem description | **Due date:** 19/12/2022
- **Week 8:** Data understanding & preprocessing | **Due date:** 26/12/2022
- **Week 9:** Data cleansing and transformation | **Due date:** 02/01/2023
- **Week 10:** Model Building & Training | **Due date:** 09/01/2023
- **Week 11:** Model Evaluation & Selection | **Due date:** 16/01/2023
- **Week 12:** Model Deployment | **Due date:** 23/01/2023
- **Week 13:** Final Report, Code, and Presentation | **Due date:** 30/01/2023

Data Intake Report:

Name: Hate Speech Detection

Report date: 15/12/2022

Internship Batch: LISUM15

Version: 1.0

Data intake by: Christos Christoforou

Data storage location: Twitter hate speech | Kaggle

Tabular data details: train_E6oV3lV

Total number of observations	31962
Total number of files	1
Total number of features	3
Base format of the file	.csv
Size of the data	3MB

Tabular data details: test_tweets_anuFYb8

Total number of observations	17197
Total number of files	1
Total number of features	2
Base format of the file	.csv
Size of the data	1.6MB