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Specialization: NLP  
Project Deadline: 11/25/2021

## Problem Description

The term hate speech is any form of expression (verbal, written, or behavioral communication) that attacks or uses derogatory or discriminatory language against a person or group. This hate could be towards religion, ethnicity, nationality, race, color, ancestry, sex, or other identity factors. In this problem, we need to build a machine learning model that predicts which tweets have hate speech in them.

Hate Speech Detection is generally a task of sentiment classification. To classify hate speech from a piece of text, we need to train the model on data used to classify sentiments. So for the task of the hate speech detection model, we will use Twitter tweets to identify tweets containing hate speech.

## Business Understanding

Organizations need to consider customers' mentality and what type of audience they are offering their products to, but dealing with the immediacy of user feedback is not an easy task, especially when the speech turns offensive. Our goal is to build a machine learning model with an f1-score higher than or equal to 0.95 to help organizations automatically detect hate speech within tweets.

## Project Lifecycle



Figure 1: Project Lifecycle

## Data Intake Report

Name: Hate Speech Detection  
Report date: 11/25/2021  
Internship Batch: NLP02  
Version: 1.0  
Data intake by: Alaa Eddine Osta  
Data intake reviewer:  
Data storage location: <https://github.com/Osta-Alaa/Hate-Speech-Detection>

## Tabular data details: df

<b>Total number of observations</b>	31962
<b>Total number of files</b>	1
<b>Total number of features</b>	3
<b>Base format of the file</b>	.csv
<b>Size of the data</b>	749.2+ KB