Group Name: Hate Speech Detection

Name	Email	Country	College/Company	Specialization
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Problem description:

Hate speech is any type of verbal, written and/or behavioral communication that attacks, uses derogatory/discriminatory language against a person or group based on inherent characteristics. For example: based on their religion, ethnicity, nationality, race, color, ancestry, sex or any other identity. In this problem, we will implement a hate speech detection model in order to optimize the speed at which hate speech is identified and removed from a social media platform.

Hate Speech Detection is generally a task of sentiment classification. A model that can classify hate speech from non-hate speech can be achieved by training it on data that is generally used to classify sentiments. For this task of hate speech detection, we will use pre-labeled tweets to train a ML model to identify tweets containing hate speech.

Business understanding:

Hate speech creates an extremely negative environment for users, making them less likely to use the platform and more likely to turn to platforms where they do not experience harassment. This can lead to a significant decrease in the number of users a platform has, and a subsequent decrease in profit and market share, making this an essential problem to get under control for business reasons in addition to moral reasons.

Project life cycle:

Phase	Deadline	Tasks
Data ingestion	2/26/2023	Process data, dedup and validate
Data cleansing	3/2/2023	Data cleansing and featurization (≥2 techniques)
Exploratory Data Analysis	3/9/2023	Get preliminary model ideas, finalize approach plans
EDA Presentation	3/16/2023	Ppt for business users, technical details on the model(s) nailed down
Model Selection/building	3/23/2023	Implement model
Final	3/30/2023	Finish everything

Data Intake report:

Name: NLP Project, Hate Speech Detection

Report date: 02/19/2023

Internship Batch: LISUM17

Version: 1.0

Data intake by: Sarah Littell

Data intake reviewer: Sarah Littell

Data storage location: https://github.com/sarahlittell/NLP_project

Tabular data details:

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	3.1 MB

Proposed Approach: Make sure there are no duplicate IDs, make sure if the same tweet exists more than once it is labeled the same both times, then delete all duplicates

Github Repo link: https://github.com/sarahlittell/NLP_project