Group Name: Hate Speech Detection

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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.

Data understanding:

Type of data: the data comes in a csv file with 3 columns; ID, label, and the tweet itself

Problems in data: the tweet can feature useless information when determining if it's hate speech such as uppercase letters, punctuation, and special characters

Approaches trying to apply to overcome issues: I will remove all punctuation and special characters from all tweets, then once there are only letters I will convert the tweets to all lowercase to avoid any false negatives because of capitalization.

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