Project: Toxic comment classification

Task

You are provided with a large number of comments which have been labeled by human raters for toxic behavior. The types of toxicity are:

- toxic
- severe toxic
- obscene
- threat
- insult
- identity_hate

For the classification task, you need to predict a binary label (0 or 1) for each of the six possible types of comment toxicity (toxic, severe_toxic, obscene, threat, insult, identity_hate) for every id in the test set.

File descriptions

- train.csv the training set, contains comments with their binary labels
- **test.csv** the test set, you must predict the toxicity for these comments.
- **sample_submission.csv** a sample submission file in the correct format

Submission File

The submission file must include a header and follow the format below, with the columns in the specified order:

id,toxic,severe_toxic,obscene,threat,insult,identity_hate 00001cee341fdb12,1,0,0,1,0,0 0000247867823ef7,1,0,1,0,1,1 00013b17ad220c46,0,0,1,0,0,0 00017563c3f7919a,1,1,1,0,0,0 00017695ad8997eb,1,0,0,1,0,1

You can test your submission here:

https://f24redi-project-toxic-language.streamlit.app/

Evaluation

The evaluation metric will be the average f1_score over all toxicity categories with average='macro'. Your model should therefore be good in detecting all toxicitys. Here is the evaluation code example: