Toxic Comment Classifier

Dataset:

The dataset will be collected from the website Kaggle, specifically from a challenge regarding the classification posted on their website. The dataset consists of following files:

- rain.csv - the training set, contains comments with their binary labels
- test.csv - the test set, you must predict the toxicity probabilities for these comments. To deter hand labeling, the test set contains some comments which are not included in scoring.
- sample_submission.csv - a sample submission file in the correct format
- test_labels.csv - labels for the test data; value of -1 indicates it was not used for scoring

Project Idea:

The main focus of the project is to learn about practical implementations of natural language processing through basic steps. We have taken a some sort of informal challenge from the website to form a model using machine learning to classify the Wikipedia comments on to following classes of toxicity:

- Toxic
- Severe_toxic
- Obscene
- Threat
- Insult
- Identity_hate

The model will be able to predict probability of each type of toxicity for each comment.

Software and Tools

Programming Language : Python 3.5
IDE : PyCharm/Jupyter Notebook
Libraries : Scipy, Numpy, Keras, Tensorflow, Pandas, etc

Team Members:

1. Kamalesh Kunwar(22)
2. Sunil Prajapati (37)
3. Bibash Shresth (48)

Work Division:

S.N.	Work	Team Members
1	Data Collection	Sunil
2	Analysis	Kamalesh
3	Algorithm Study	Bibash
4	Design	Sunil
5	Coding	All
6	Training	All
7	Testing	All
8	Documentation	Sunil