Project Description

The project file uploaded on C@mpus contains over a large, labelled dataset of tweets associated with global disaster events collected by an AI platform. The tweets have been classified according to whether the tweets referred to real disaster events or not.

For this project, you will be building a text classifier using a Recurrent Neural Network model.

Below are the expected outcomes of the project:

1. Understand the use case of an important class of neural networks that help in Natural Language Processing
2. Train and test the built model using metrics including accuracy, precision, recall and F1-score
3. Try at least two different network configurations of RNN (LSTM) by varying the number of hidden layers you use for the models. And finally compare the classification accuracies of these two network configurations.
4. Compute the confusion matrix- False positives, False négatives, True positives, True negatives
5. Plot the accuracy and loss (y-axis) and epochs (x-axis)

Your submission should include:

1. Detailed presentation including the method followed by you, the outputs generated by both the network configurations at each step, comparison and short discussion slide explaining why you think one configuration had better accuracy than the other and a summary of the model layers
2. Your model codes.