Deep Learning

Emotion Detection - July 1st Exam

Task

The task consists in creating a Emotion Detection model, able to recognise the emotion expressed in a given text/sentence.

Dataset

The dataset is composed of 58k texts labelled manually to assign them an emotion among the ones defined by Paul Ekman(Anger, Disgust, Fear, Joy, Sadness and Surprise) with the addition of the neutral class for the texts without emotions. The data provided are already split into train, test and dev(validation).

Structure

Write a notebook explaining every step you take in the building of the pipeline and **DON'T** clear the output of the cells when you submit it.

Make sure to test the model in order to prove robustness and lack of overfitting.

The metric you will need to use to evaluate the results is the f1-macro average**.**

Hints and requirements

Focus on the pre-processing phase when working with text.

There are no limits on the number of parameters nor in the use of pre-trained models, the use of small models is encouraged. The only requirement is to use tensorflow 2.x in the development of your model.

Try to remember all the instructions we provided in the last lab lesson about the submission, make sure to output the metrics of your final model and use the adequate strategy for the task.

Save the weights of your model and keep them until the discussion, we might ask you to provide them.

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