**HW 5 – Multi-label Classification Using Hugging Face Trainer (15 Points)**

**Required Submission files:**

***Submit the following two files:***

1. **FirstName\_LastName\_HW5.ipynb**

* **No pdf files are required.**

You should also make a submission to the Kaggle Competition. HWs will not be graded without the Kaggle submission.

**TASK: Emotion Detection**

In this competition, you will work with a unique dataset of tweets, each labeled with a range of emotions such as anger, joy, optimism, sadness, and more. The objective is to develop predictive models that can accurately classify multiple emotions conveyed in a single tweet.

**Data:**

The HW is part of the in-class Kaggle Competition. The task and data details can be found from the following link: <https://www.kaggle.com/t/a814400a97fa4ab69ae8e14a8566241e>

**Model:**

* For this HW you have to create your own model from scratch. You can use feed-forward Neural Network. Optional (Try LSTM).
* You are not allowed to use pre-trained models for HW5.
* You have to use HiggingFace Trainer and Huggingface Dataset for this HW

Reference File: 4\_Feed\_Forward\_NN\_Part2 /5\_imdb\_complete\_example\_hf\_trainer.ipynb