

## **NLP(DEEP) - Lab 06 - Theory Report**

## **1 Wrongly classified**

### **1.1 For at least 2 samples which have been wrongly classified in the test set, try explaining why the model could have been wrong**

In the two examples taken, it is clear from their content that they are complex, nuanced and relatively long. All these elements make it possible for the model to be wrong.

## **2 Transformers vs Naive Bayes**

### **2.1 What are the advantages and inconvenient of using this model in production compared to the naive Bayes we implemented in the first part of the course ?**

In terms of advantages, we can say that this kind of more complex model, with many more parameters, can obtain extremely high precision and very interesting results, especially in production. On the other hand, this kind of model will require much more resources to be deployed and does not correspond to the capacity of any machine.

Technically, the use of a model like this one or the Naive Bayes used last time really depends on the goal and must be adapted to each situation.