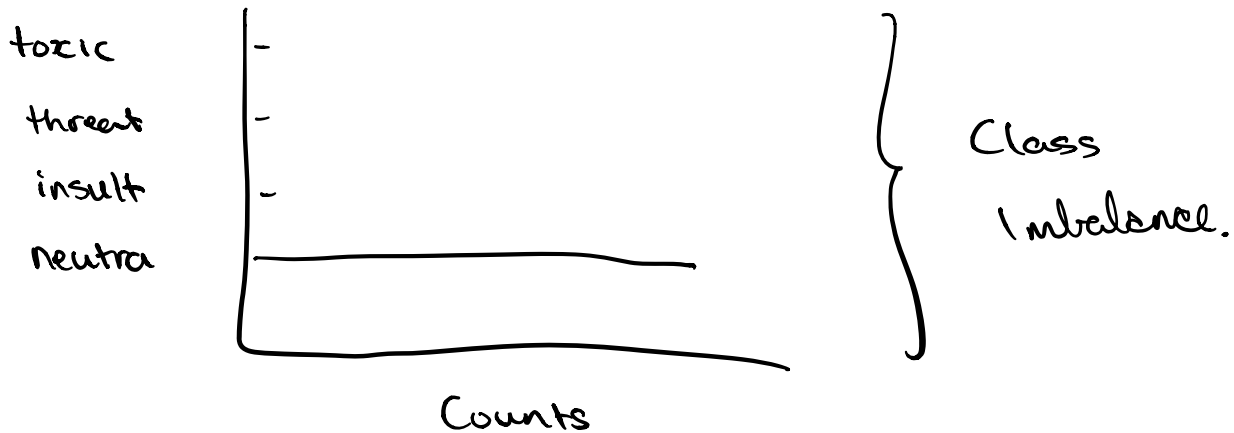


IMRSV - does NLP and Speech analysis

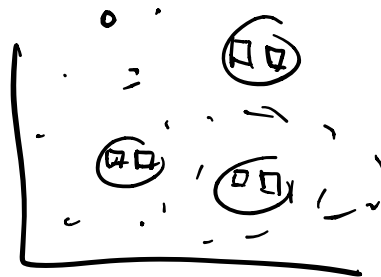
## How to classify Sentences



## Problems:



Overlapping Classes



Small Disjuncts

$$\text{True Positive rate} = TP / (TP + FN)$$

...

• ROC-AUC.

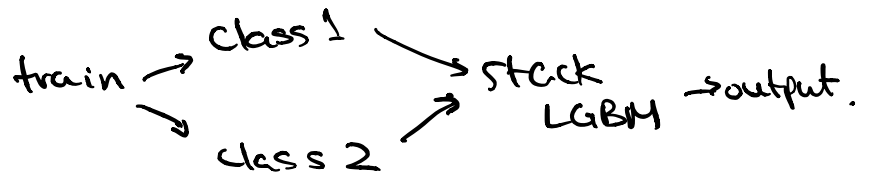
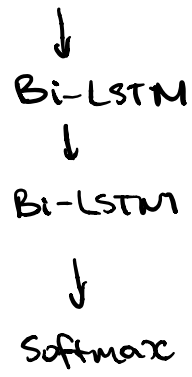
## Solutions

• Data vs Model

— DATA —

- augmentation using translations (en  $\rightarrow$  fr  $\rightarrow$  en)
- random undersampling (discard overpop)
- random oversampling (magnify small sample)

— MODEL —  
Embeddings



How to find data use Out of Fold (OOF) predictions!