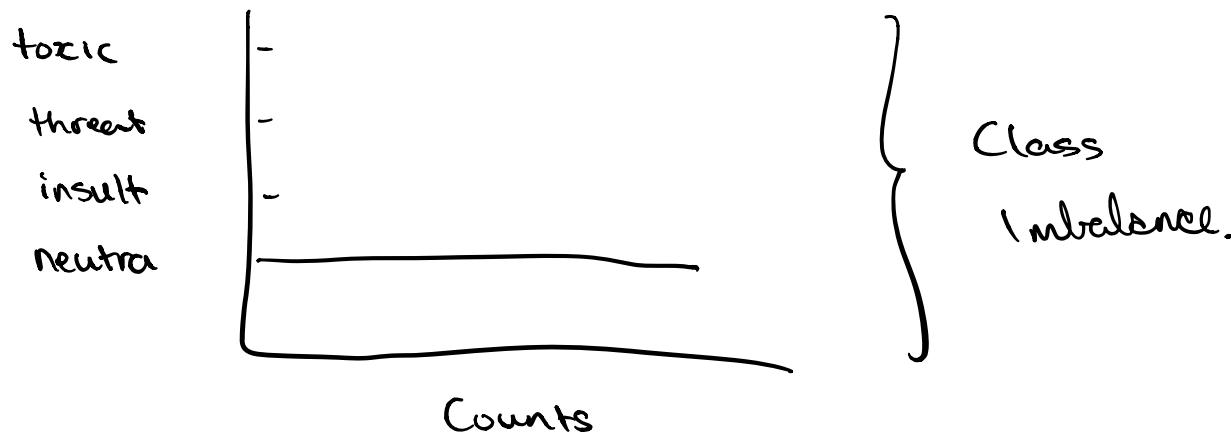


IMRSV - does NLP and Speech analysis

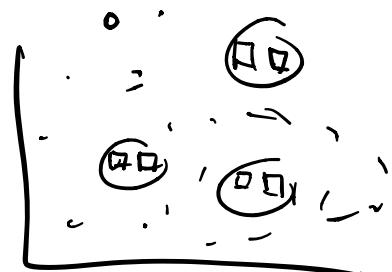
How to classify Sentences



Problems:



Overlapping Classes



Small Disjuncts

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

- 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

↓
Bi-LSTM
↓
Bi-LSTM

↓
Softmax

train → class 1
→ class 2 → stack
LGBM → output.

How to find data use Out of fold (oof) predictions.