# Tfidf matrix:

We cannot directly fed the text to the classifier.

So we need to convert the text to numberic matrix format the way to do that is

* Count vectorizer
* Tfidf vectorizer.
* It create the document term matrix.
* It caliculates the term frequency and inverse document frequency.

Tfidf or count vectorizer might be useful only to feature extraction only.

TRUE POSSITIVE :

Correctly identified prediction for each class.

True negative:

Correctly rejected prediction for certain class.

FALSE POSSITIVE:

INCORRECTLY IDENTIFIED PREDICTIONS FOR CERTAIN CLASS.

FALSE NEGATIVE:

Incorrectly rejected prediction for certain class.

ACCURACY:

Total number of correct predictions / total predictions

F1 score:

F11 score is the harmonic mean of precision and recall.

Precision = tp/(tp + fp )

Recall= tp/(tp + fn)