269494 Final Exam

• What is the news sentiment analysis system? (1 points)

: The system that is used to detect the message ( news ) that related with sentiment for the reader who want to know the news is positive, natural or negative, so that we will be able to use our model to predict the news message and the output is sentiment

• Number of classes, features, size of training and testing data. (2 points)

: My work, there are 3 classes the first class is positive ,second is Neutral and the third is Negative

Feature: There are two features are ‘Sentiment’ and ‘Message’

Size of training and testing data:

For the training and testing size I choose 40% for training and 60% for testing as the instruction.

Results (5 points)

A screenshot of a computer screen

Description automatically generated

Precision of each class are:

Negative: 54%

Natural: 77%

Positive: 62%

Recall of each class are:

Negative: 56%

Natural: 80%

Positive: 55%

In my opinion we should focus on “Recall” because we are want to make the model correctly to detected about negative sentiment.

Problems that may arise are: The model predicts negative news as positive news. The model predicts positive news as negative news. Or the model predicts natural news whether it is positive or negative news. Those problems make the model inaccurate, which is an inefficient model. Because those problems may come from not processing data well enough.