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COMP814 – Text Mining

NN and CNN Text Classification

# Objective

1. To be able setup a NN and CNN for text classification.

# Task

1. Run and study the demo code on NN and CNN from lectures.
2. Download the file SMSSpamCollection from Canvas
3. Read in the data and format it into training and test sets(80% for training and the rest for testing)
4. Demonstrate overtraining by setting up and NN and CNN on the dataset. Observe and explain why the networks are overtrained.
5. Now train a NN and a CNN and optimise the parameters to achieve the best possible accuracy on test data.
6. Report on your best network and the parameters as attempt for this lab.