Text generation analysis [ongoing]

Started with character prediction:

For familiarisation, started with only 1952.txt:

* First output from only 20 epochs:

" alty affection immense support encouragement want take christmas day first opportunity thank heart m "

Any more than that and it could only repeat characters or produce nothing

Loss reached 2.92338

Epoch 00020: loss did not improve from 2.92338

* 50 epochs:

" eyond the safeties of the past, i know we shall be worthy of our duty. above all, we must keep aliv " e that courageous spirit of adventure that is the finest quility of youth; and by youth i do not just mean those who are young in heart, no matter how old they may be. that spirit still flourishes in this old country and in all the younger countries of our commonwealth. mn this broad foundathon lett june, i shall dedicate my pit out teo are sor mime those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are young in years; i mean too all those who are you Done.”

Still repeating at the end

At the end of the training phase for 50 epochs, the “loss” reached 0.31709

Epoch 00050: loss improved from 0.36049 to 0.31709, saving model to weights-improvement-50-0.3171-bigger.hdf5

Next steps:

* All text (how?)
* More epochs (why not…)
* Word generation vs character
* All text but only 1 epoch (time restraints)

Total Characters: 241726 Total Vocab: 57 Total Patterns: 241626 Seed: " stianity is not the only religion to teach its followers to help others and to treat your neighbour " and the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor the wor th

Need to think over the time constraints

Useful links:

<https://machinelearningmastery.com/text-generation-lstm-recurrent-neural-networks-python-keras/>

<https://tatianashavrina.github.io/2018/08/30/keras/>

* used <https://towardsdatascience.com/generating-text-using-a-recurrent-neural-network-1c3bfee27a5e>

faster processing (LOOK INTO WHY); therefore could use all speeches, 20 epochs.

(remember to run this again and call the generation function!!)

* About to look into:

<https://github.com/vlraik/word-level-rnn-keras/blob/master/wordlevelrnn/__init__.py>