

Assignment 3 Report:

Q1) word2vec was implemented using skipgram method instead of ngram. This means that given a word, the function finds words similar to it (also called the context). For this every sentence was taken one at a time and for every sentence, the words were iterated using a sliding window to get an idea of the context. For every word, the 2 words behind it and the 2 words in front of it were considered. Using this a loss was calculated and using deeplearning the model was trained. Some words which appeared together during visualization are:

Campaign, organization, run, opposition

Russian, formerly, government, king

Prime, Minister, Deputy

Q2) Relevance feedback gave a MAP of 0.9778

Relevance feedback with query expansion gave a MAP of 0.9736