# Improvement in model performance:

1. **More training data:** The model currently just works on 2 texts did not have enough training points. Also because of the lack of data, the original text had to be split into just sentences for training. This reduced the capability of understanding connection between different sentences.
2. **Deeper CNN:** If we are provided with more training data, we can go deeper with a more sophisticated CNN architecture to improve the performance of classification
3. **Hyperparameter tuning:**
   1. Use GloVe word embeddings as a starting point and tune them while fitting the model and see the difference with word2vec
   2. Grid search across different kernel sizes to find the optimal configuration for your problem, in the range 1-10.
   3. Search the number of filters from 100-600 and explore a dropout of 0.0-0.5 as part of the same search.
   4. Explore using tanh, relu, and linear activation function
4. **Character level CNN:** Check for a character level CNN architecture to make the classification language independent and just dependent on characters fed to the model.
5. **Cross validation:** A k-fold cross validation will be possible given a larger corpus of training points.
6. **Regularization:** Check if L2 regularization improves the performance further.