NLP Dr. Karen Mazidi

Portfolio Assignment: Text Classification

Objectives:

- Gain experience with Keras
- Gain experience with text classification
- Gain experience with deep learning model variations and embeddings

Turn in:

- This program should be created in a notebook (Jupyter, Google, or Kaggle)
- Print to pdf and upload your pdf to eLearning and your Portfolio

Instructions:

- 1. Go to Kaggle.com. Find a text classification data set that interests you. Divide into train/test. Create a graph showing the distribution of the target classes. Describe the data set and what the model should be able to predict.
- 2. Create a sequential model and evaluate on the test data
- 3. Try a different architecture like RNN, CNN, etc and evaluate on the test data
- 4. Try different embedding approaches and evaluate on the test data
- 5. Write up your analysis of the performance of various approaches

Grading Rubric:

- Each part is worth 0 to 20 points
- Your grade is not determined by the accuracy achieved, but by how much work and thought you put into it

Caution: All course work is run through plagiarism detection software comparing students' work as well as work from previous semesters and other sources.