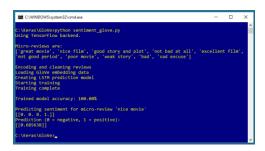
Predictive Analytics World / Deep Learning World Exercises - GloVe Embeddings

1. Locate and download the GloVe embedding data, in particular, file glove.6B.100d.txt based on 2014 Wikipedia text. Write a Python program that sets up 10 hard-coded micro reviews (four words max length each, five positive and five negative) and creates a sentiment analysis model based on the GloVe embeddings. For example:



- 2. Modify your program for multi-class analysis where negative = (1,0,0), neural = (0,1,0), positive = (0,0,1). Increase the max length of the micro reviews to five or six, and add five hard-coded neutral microreviews to the training data.
- 3. Which statement is most accurate?
- a.) Using global embeddings like GloVe is most appropriate when creating NLP prediction systems for domain-specific problems, such as legal text, or medical text.
- b.) Using global embeddings like GloVe is most appropriate when creating NLP prediction systems for generic problems, such as systems like Apple Siri or Amazon Alexa.
- c.) Using global embeddings like GloVe is most appropriate for initializing the weights of an embedding layer.
- 4. Which statement is most accurate?
- a.) The Keras Tokenizer fit() method encodes words according to order of first appearance.
- b.) The Keras Tokenizer fit() method encodes words according to their frequency.
- c.) The Keras Tokenizer fit() method encodes words randomly, controlled by NumPy random class.
- 5. Which statement is most accurate?
- a.) In general, most NLP neural systems, including Keras Tokenizer, use 0 for padding.
- b.) In general, most NLP neural systems, including Keras Tokenizer, use 0 for out-of-vocabulary.
- c.) In general, most NLP neural systems, including Keras Tokenizer, use 0 for stop-words.
- 6. Which statement is most accurate?
- a.) In general, most NLP neural systems by default place padding at the beginning of a sentence.
- b.) In general, most NLP neural systems by default place padding at the end of a sentence.
- c.) In general, most NLP neural systems place half of padding at beginning, half at end of a sentence.