Week 4 Comprehensive

TOTAL POINTS 10

What is meant by "word vector"?	1 point		
A vector of numbers associated with a word.			
The latitude and longitude of the place a word originated.		7. What is the continuous bag of words (CBOW) approach?	1 point
Assigning a corresponding number to each word.		The code for word n is fed through a CNN and categorized with a softmax.	
A vector consisting of all words in a vocabulary.		Word n is learned from a large corpus of words, which a human has labeled.	
		Vectors for the neighborhood of words are averaged and used to predict word n.	
Which word is a synonym for "word vector"?	1 point	Word n is used to predict the words in the neighborhood of word n.	
○ Stack			
Embedding		8. What is the Skip-Gram approach?	1 point
○ Array		Vectors for the neighborhood of words are averaged and used to predict word n.	
○ Norm		The code for word n is fed through a CNN and categorized with a softmax.	
		 Word n is learned from a large corpus of words, which a human has labeled. 	
3. What is the term for a set of vectors, with one vector for each word in the vocabulary?	1 point	Word n is used to predict the words in the neighborhood of word n.	
○ Embedding			
● Codebook		9. What is the goal of the recurrent neural network?	1 point
○ Array		Classify an unlabeled image.	
○ Space		Predict words more efficiently than Skip-Gram.	
		Learn a series of images that form a video.	
4. What is natural language processing?	1 point	 Synthesize a sequence of words. 	
Taking natural text and making inferences and predictions.		10. Which model is the state-of-the-art for text synthesis?	
Making natural text conform to formal language standards.			
Translating natural text characters to unicode representations.		Multilayer perceptron	
Translating human-readable code to machine-readable instructions.		O CNN	
		Long short-term memory	
		CBOW	
5. What is the goal of learning word vectors?	1 point		
Determine the vocabulary in the codebook.			
Labelling a text corpus, so a human doesn't have to do it.			
Find the hidden or latent features in a text.			
Given a word, predict which words are in its vicinity.			
What function is the generalization of the logistic function to multiple dimensions?	1 point		
○ Squash function			
Softmax function			
Exponential log likelihood			
Hyperbolic tangent function			