point		embedding vectors should be 10000 dimensional, so as to capture the full range of variation and meaning in those words. True		
		False		
1 point	2.	What is t-SNE?		
		A linear transformation that allows us to solve analogies on word vectors A non-linear dimensionality reduction technique		
		A supervised learning algorithm for learning wo	ord embeddings	
1 point	3.	Suppose you download a pre-trained word embedding corpus of text. You then use this word embedding to trained		
		recognizing if someone is happy from a short snippet o	f text, using a small training set.	
		x (input text) I'm feeling wonderful today!	y (happy?)	
		I'm bummed my cat is ill.	0	
		Really enjoying this! Then even if the word "ecstatic" does not appear in you might reasonably be expected to recognize "I'm ecstatic"		
		True False		
1 point	4.	Which of these equations do you think should hold for a good word embedding? (Chec all that apply) $e_{boy} - e_{girl} \approx e_{brother} - e_{sister}$		
роше				
		$e_{boy} - e_{brother} \approx e_{girl} - e_{sister}$ $e_{boy} - e_{brother} \approx e_{sister} - e_{girl}$		
1 point	5.	Let $\it E$ be an embedding matrix, and let $\it e_{1234}$		
point		be a one-hot vector corresponding to word 1234. Then to get the embedding of word 1234, why don't we call $E*e_{1234}$ in Python?		
		It is computationally wasteful.		
		. This doesn't handle unknown words (<unk>).</unk>		
		None of the above: Calling the Python snippet as described above is fine.		
1 point	6.	When learning word embeddings, we create an artificial task of estimating $P(target \mid context)$. It is okay if we do poorly on this artificial prediction task; the more important by-product of this task is that we learn a useful set of word embeddings. True		
		False		
1 point	7.	7. In the word2vec algorithm, you estimate $P(t \mid c)$, where t is the target word and c		
		is a context word. How are $\it t$ and $\it c$		
		chosen from the training set? Pick the best answer.		
		is a sequence of several words immediately bef	rore t	
		$\stackrel{\bigcirc}{\bigcirc}$ ${}$ is the sequence of all the words in the sentence .	e before <i>t</i>	
		c and t		
		are chosen to be nearby words.	$\geq t$	
		•		
1 point	8.	Suppose you have a 10000 word vocabulary, and are leembeddings. The word2vec model uses the following se		
		$P(t \mid c) = \frac{e^{\theta_t^T e_c}}{\sum_{t'=1}^{10000} e^{\theta_{t'}^T e_c}}$		
		Which of these statements are correct? Check all that a θ_t	pply.	
		and e_c are both 500 dimensional vectors.		
		$\begin{array}{c} \theta_t \\ \text{and } e_c \end{array}$		
		are both 10000 dimensional vectors. θ_t and e_c		
		are both trained with an optimization algorithm descent.	n such as Adam or gradient	
		After training, we should expect θ_t to be very close to e_c when t and c are the same word.		
1	9.	Suppose you have a 10000 word vocabulary, and are le	arning 500-dimensional word	
point		embeddings. The GloVe model minimizes this objective: $\min \ \sum_{i=1}^{10,000} \sum_{j=1}^{10,000} f(X_{ij}) (\theta_i^T e_j + b_i + b_j^{'} - log X_{ij})^2$		
		Which of these statements are correct? Check all that a	pply.	
			•	
		should be initialized to 0 at the beginning of traces θ_i	ining.	
		and e_j should be initialized randomly at the beginning	of training.	
		X_{ij} is the number of times word i appears in the co	ontext of word j.	
		The weighting function $f(.)$ must satisfy $f(0) = 0$		
1 point	10.	You have trained word embeddings using a text dataset of m_1 words. You are considering using these word embeddings for a language task, for which		
		you have a separate labeled dataset of m_2 words. Keeping in mind that using word embeddings is which of these circumstance would you expect the wor	a form of transfer learning, under	
		m_1 $>> m_2$	J	
		m_1		
		[Math Processing Error] << m ₂		

Je soussigné(e), Sébastien Moreau, accepte que ma soumission de travaux ne résultant pas de mes propres efforts entraîne un échec permanent de ce cours et la désactivation de mon compte Coursera. Apprenez davantage sur le Code d'honneur de Coursera

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