The GloVe approach

1.	The GloVe approach is	1 point
	Mark only one oval.	
	an Unsupervised Learning Algorithm A Supervised Learning Algorithm	
2.	The GloVe approach can be summarized as follows:	1 point
	Mark only one oval.	
	A Singular Value Decomposition on the co-occurence matrix A Matrix Factorization on the logarithm of the co-occurence matrix	
	Co-occurence Matrix	
3.	Let us consider the following corpus compose of three documents. Let i be the index of the word "algorithm" and j the index of the word "unsupervised". if the window size is 3, what would be X_{ij} ?	2 points
	 The GloVe algorithm is un unsupervised learning algorithm We create low dimensional vectors using the unsupervised Word2vec algorithm The Matrix Factorization algorithm is used for generating unsupervised low dimensional word representations 	
	Mark only one oval.	

4. Same question with a window size of 5. What would be X_{ij}?

2 points

Mark only one oval.

() 2

Og(pi) + 2

Regularization

5. What technique consists in adding a penalty term to the loss function in order to 2 points avoid the overfitting problem

$$J = \sum_{i=1}^{V} \sum_{j=1}^{V} f(X_{ij}) (\log X_{ij} - W_i^T \tilde{W}_j - b_i - \tilde{b}_j)^2 + \lambda (||W||_{\mathrm{F}}^2 + ||\tilde{W}||_{\mathrm{F}}^2 + ||b||_2^2 + ||\tilde{b}||_2^2)$$

Mark only one oval.

Dropout

Weight Regularization

This content is neither created nor endorsed by Google.

Google Forms

30/04/2023, 20:31 The GloVe approach