The GloVe approach

The GloVe approach is   1 point

🔘 an Unsupervised Learning Algorithm

⚪ A Supervised Learning Algorithm

The GloVe approach can be summarized as follows: 1 point

⚪ A Singular Value Decomposition on the co-occurence matrix

🔘 A Matrix Factorization on the logarithm of the co-occurence matrix

Co-occurence Matrix

Let us consider the following corpus compose of three documents. Let i be the index of   2 points
the word "algorithm" and j the index of the word "unsupervised". if the window size is 3,
what would be X_{ij} ?

- 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

○ 1

◉ 3

○ 5

Same question with a window size of 5. What would be X_{ij} ?   2 points

○ 2

◉ 4

○ log(pi) + 2

Regularization

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

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

○ Dropout

⦿ Weight Regularization

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