Quiz : GloVe

Please answer the following questions.

* Indicates required question

Nom

Your answer

Adresse e-mail

Your answer

What is the primary objective of the GloVe model? * 1 point

- [ ] To cluster words into predefined categories.
- [x] To create word embeddings by factoring a co-occurrence matrix.
- [ ] To predict the next word in a sequence.
- [ ] To translate text from one language to another.

How does GloVe use the co-occurrence matrix? 1 point

- ○ GloVe uses the co-occurrence matrix to count the total number of words in a document.
- ◉ GloVe factors the co-occurrence matrix to learn word embeddings that capture word relationships.
- ○ GloVe uses the co-occurrence matrix to sort words alphabetically.
- ○ GloVe converts the co-occurrence matrix into a bag-of-words representation.

Clear selection

Which of the following is true about the cost function in GloVe? * 1 point

- ○ It measures the accuracy of word predictions in a sequence.
- ◉ It sums the squared differences between the observed and predicted co-occurrence values, weighted by their frequencies.
- ○ It maximizes the likelihood of a word given its context.
- ○ It calculates the cosine similarity between word vectors.

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

1. The GloVe **algorithm** is a **unsupervised** learning **algorithm**.
2. We create low dimensional vectors using the **unsupervised** Word2vec **algorithm**.
3. The Matrix Factorization **algorithm** is used for generating **unsupervised** low dimensional word representations.

- ◉ 3
- ○ 1
- ○ 5

Same question with a window size of 5. What would be X_{ij} ? 1 point

- ○ 1
- ○ 3
- ◉ 4

Clear selection

What is the key difference between using the least squares optimization by setting the gradient to zero and using gradient descent in the context of GloVe? * 1 point

- ◉ Least squares optimization provides an exact solution, while gradient descent iteratively approximates the solution.
- ○ Gradient descent is faster and more efficient than least squares optimization.
- ○ Least squares optimization is only used for classification problems, while gradient descent is used for regression.
- ○ Option 4

Do you have any feedback on the lecture or programming session?

Your answer

Submit Clear form