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Abstract

I looked through [2] to get what contextual representation means.

Description

The [1] describes that a multi-head attention layer gets the contextual representation of global and personal versions of query and document. This method is introduced elaborately in [2], a famous paper published by Google Brain. The main idea is to get the most relevant value attributed to keys given a query. To be more specific, among different values, it outputs the one that is the most relevant according to the query. Therefore, the authors of [1] have utilized these to get the essential concepts-namely context of the query and document. It probably helps with the better representation of the meaning of the words of the query and document. Despite the brilliance of this method, unless we do not plan to divide queries and items into their words, these steps are not necessary.

Next Week

1. Conducting a meeting for the implementation ideas.

References

- [1] Jing Yao et al. Employing personal word embeddings for personalized search. SIGIR '20: Proceedings of the 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval, 2020.
- [2] Vaswani et al. Attention is all you need. NIPS'17: Proceedings of the 31st International Conference on Neural Information Processing Systems, 2017.