Embeddings from neural networks for cause similarity

Neural network embeddings have 3 primary purposes:

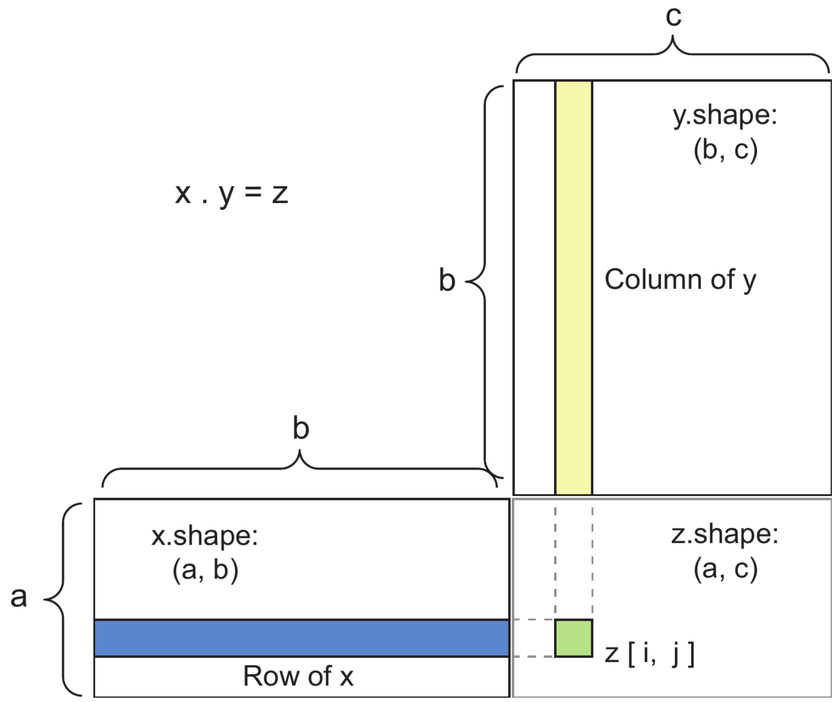
1) Finding nearest neighbours in the embedding space. These can be used to make recommendations based on user interests or cluster categories.
2) As input to a machine learning model for a supervised task.
3) For visualization of concepts and relations between categories.

The dot product between two embedding vectors is a measure of their distance

The similarity between the cause embeddings then can be inferred from their distance as:

Similarity = 1.0 − distance

This is used to compute similar causes



Shi, Wenchuan, Wang, Liejun, and Qin, Jiwei. "User Embedding for Rating Prediction in SVD -Based Collaborative Filtering." Symmetry (Basel) 12.1 (2020): 121. Web
https://towardsdatascience.com/neural-network-embeddings-explained-4d028e6f0526