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NLP Homework 5 – q2

Q:

Implement show\_nearest(). Given a dictionary of word-context vectors, the context vector of a particular query word w, the words you want to exclude in the responses (It should be the query word w in this question), and the similarity metric you want to use (it should be the cossim sparse function you just implemented), show\_nearest() finds the 10 words most similar to w. Display the similar words, and their similarity scores against the query word w. To make sure your function is working, feel free to use the small nytcounts.university cat dog database via the provided testq2.py program.

A:

Method has been implemented and uploaded on Vocareum.

Below is the result of executing provided file: testq2.py

It shows 10 similar words to word: **dog**

file nytcounts.university\_cat\_dog has contexts for 3 words

1: cat (0.966891672715)

2: university (0.659230248969)