START OF QUIZ Student ID: 12702213,Zhang,Zhipian

Topic: Lecture 7 Source: Lecture 7

What is the benefit (in terms of efficiency) of placing the most discriminative search terms first in a boolean search? (1)

Topic: Lecture 5 Source: Lecture 5

Why can we be confident that a low-rank approximation of a matrix contains the most important information in a document? (1)

Topic: Lecture 8 Source: Lecture 8

What are some assumptions that we make when we are interpolating between a document and a corpus? When should we trust the corpus more, and when should we trust the document more? (2)

Topic: Lecture 6 Source: Lecture 6

Why can't we just run an HMM over documents to discover the latent states like we do for POS-tagging? (1)

Topic: Lecture 8 Source: Lecture 8

In class, I mentioned that high k value for BM25 TF weighting rewards documents with many, many instances of a term in them. Explain why that's the case. (2)

Topic: Lecture 5 Source: Lecture 5

We often weight our matrices using something like PMI or TF-IDF. Do you think it would make sense to do this after applying SVD? Why or why not? (2)

Topic: Lecture 6 Source: Lecture 6

Why don't we just use k-means to cluster document-vectors (sparse or dense)? (1)

Topic: Lecture 7 Source: Lecture 7

What is the purpose of an inverted index? (1)

Topic: Coding Source: Coding

Write a short function that confirms that the sum of n rank-1 matrices is identical to the product of an nxk matrix and a kxn matrix. (3)

END OF QUIZ