START OF QUIZ Student ID: 30425177,He,Hao Chen

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 7 Source: Lecture 7

Why do we generally care more about precision than recall in IR? (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

In class, we talked about bookstores and streaming algorithms classifying books / movies. How can we tell that they don't use a topic modeling algorithm (or, if you think they do, what would be some clues)? (1)

Topic: Lecture 8 Source: Lecture 8

What is the reasonining behind substituting TF-IDF with Okapi BM25? (1)

Topic: Lecture 5 Source: Lecture 5

Why can we represent a rank-m matrix as the sum of m rank-1 matrices *or* the product of an n x m matrix and an m x n matrix (ie, what is matrix multiplication doing that we can take advantage of?)? Explain. (2)

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 6 Source: Lecture 6

In some ways, we could consider Beta distributions themselves to be an embedding of a topic. Explain, and explain how we might be able to leverage that. (2)

Topic: Long

Source: Lecture 8

In class, we considered two different types of information retrieval systems - one that uses Boolean terms to find matches, and one that uses a language model to allow for "natural language" queries. Can you think of a way that we might be able to leverage the strengths of both, while minimizing the disadvantages? Briefly explain how that might work. (2)

END OF QUIZ