START OF QUIZ Student ID: 61305504,Jia,Hao

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 7 Source: Lecture 7

Define P@R. (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

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 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 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

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

Topic: Coding Source: Coding

Write a function that returns the most likely n documents given a term-document matrix, a smoothing parameter, and a query. (3)

END OF QUIZ