START OF QUIZ Student ID: 80162985,Sirwani,kartik

Topic: Lecture 7 Source: Lecture 7

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

Topic: Lecture 7 Source: Lecture 7

What is the benefit of evaluating boolean queries using set operations instead of loops? (1)

Topic: Lecture 8 Source: Lecture 8

What do we mean by interpolation? (1)

Topic: Lecture 6 Source: Lecture 6

In class, we saw a few topics that we were unable to identify. What could be a cause for such pointless topics (ie, how might we ensure that our topics are better? (2 reasons). (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

In some ways, we could consider Beta / Theta distributions themselves to be an embedding of a topic / document. Explain, and explain how we might be able to leverage that. (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 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: Long

Source: Lecture 7

Imagine that we have 2 information retrieval systems, and we are evaluating on the same test set, which has 10 relevant documents. The first system returns them in positions [1, 5, 7, 15, 25, 50, 60, 70, 71, 90]. The second returns the documents at positions [2, 3, 6, 8, 10, 62, 80, 83, 91, 95]. Make an argument for each system being better, and provide support for both. Explain which system you would rather use, and why. If there are any other considerations, list them. (3)

END OF QUIZ