START OF QUIZ Student ID: 83261909, Dang, Trang

Topic: Lecture 7 Source: Lecture 7

Define P@R. (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 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

Explain the logic behind the IDF part of TF-IDF (ie, why does it give higher weights to more "interesting" words?). (1)

Topic: Lecture 6 Source: Lecture 6

Why do we need a "human in the loop" for topic modeling? (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 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 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: Long

Source: Lecture 6

Imagine that we have a Beta distribution for each document, and a Theta distribution for each document. We are at the Maximization state of EM write a short function that calculates the probability of a document, given these distributions. Pay special attention to edge cases and special considerations... (3)

END OF QUIZ