

START OF QUIZ

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Question 1

Topic: Lecture 8

Source: Lecture 8

Why don't we use a higher-order language model to perform IR? (1)

Question 2

Topic: Lecture 7

Source: Lecture 7

Explain why boolean filtering is usually insufficient for retrieval, and why we normally need some way of scoring the documents. (2)

Question 3

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)

Question 4

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 $n \times m$ matrix and an $m \times n$ matrix (ie, what is matrix multiplication doing that we can take advantage of)? Explain. (2)

Question 5

Topic: Lecture 8

Source: Lecture 8

What do we mean by interpolation? (1)

Question 6

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)

Question 7

Topic: Lecture 6

Source: Lecture 6

Why do we need a "human in the loop" for topic modeling? (1)

Question 8

Topic: Lecture 7

Source: Lecture 7

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

Question 9

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