

START OF QUIZ

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Question 1

Topic: Lecture 1

Source: Lecture 1

What are two ways to check if a string is a palindrome, without reversing the string? (1)

Question 2

Topic: Lecture 4

Source: Lecture 4

What are two potential drawbacks of removing stopwords from a text before conducting a sentiment analysis? (1)

Question 3

Topic: Lecture 3

Source: Lecture 3

Why do we not care about the extra space required to create a reverse index? (2 reasons) (1)

Question 4

Topic: Lecture 4

Source: Lecture 4

In class, we removed stopwords by using a lexicon. Can you think of another way that we could remove all closed class words? (1)

Question 5

Topic: Lecture 1

Source: Lecture 1

What method would you use to check if a string contains only numeric digits (including decimals) without using any additional libraries? (1)

Question 6

Topic: Lecture 3

Source: Lecture 3

Lexicons are useful for initial text analysis but often lack the adaptability needed for advanced NLP tasks. Why is this the case? Provide at least 2 reasons with brief explanations.
(2)

Question 7

Topic: Lecture 2

Source: Lecture 2

If you were to analyze a corpus for stylistic differences, how might you determine: the formality of the language; whether it's written or spoken; its sentiment? Assume that we don't have existing ML tools or enough data to train one. (2)

Question 8

Topic: Lecture 2

Source: Lecture 2

Is it possible for a corpus of a low-resource language to follow Zipf's law? What factors might influence the degree to which the law applies in such languages? (2)

Question 9

Topic: Long

Source: Lecture 1

Write a function that validates if a string matches a phone number format, such as (123) 456-7890. What types of invalid inputs should the function check for? Are there edge cases we would be willing to accept? How would we handle those? Write 3 test cases - 2 that should pass, and one that should fail. (3)

END OF QUIZ