

START OF QUIZ

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Question 1

Topic: Topic3

Source: Lecture 3

Describe the noisy channel model, and how it can be used to represent Machine Translation.

Question 2

Topic: Topic1

Source: Lecture 1

Explain what modifications would need to be made to our dynamic edit distance algorithm to incorporate weighted edit distance.

Question 3

Topic: Topic3

Source: Lecture 3

Explain the purpose of Laplace smoothing, and how it accomplishes its goal.

Question 4

Topic: Topic2

Source: Lecture 2

Are both K-means and agglomerative clustering iterative? Explain, and for each that is, explain when the algorithm ends.

Question 5

Topic: Topic1

Source: Lecture 1

Discuss why one might do unsupervised learning instead of supervised learning.

Question 6

Topic: Topic4

Source: Lecture 4

What is the main difference between the Viterbi algorithm and the Forward algorithm, and why does it allow us to find the optimal path through a sequence?

Question 7

Topic: Topic4

Source: Lecture 4

Briefly describe why soft EM might provide more accurate tagging results than hard EM.

Question 8

Topic: Topic2

Source: Lecture 2

Why is the Forgy initialization sub-optimal?

Question 9

Topic: Coding

Source: Lecture 2

Imagine we have three clusters $[[X, Y], [M, N, P], [A, B, C, D]]$, and a point $[R]$. Write a function that determines which cluster to add R to, given the min linkage criterion.

END OF QUIZ