

START OF QUIZ

Student ID:

29014990,Mirjalili,Sara

Question 1

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 2

Topic: Topic4

Source: Lecture 4

What is the main purpose of semi-supervised learning in EM? That is, how does it affect the overall model, and where is the effect the largest?

Question 3

Topic: Topic4

Source: Lecture 4

Why can we use logarithms for the Viterbi algorithm, but not for the Forward algorithm?

Question 4

Topic: Topic2

Source: Lecture 2

When is it more appropriate to use hierarchical clustering than k-means?

Question 5

Topic: Topic3

Source: Lecture 3

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

Question 6

Topic: Topic1

Source: Lecture 1

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

Question 7

Topic: Topic3

Source: Lecture 3

In your own words, explain the Markov assumption, and how it is used for language modeling.

Question 8

Topic: Topic2

Source: Lecture 2

How do we choose the number of clusters for K-means? What are the consequences if we choose poorly?

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 mean linkage criterion.

END OF QUIZ