Congratulations! You passed!

Grade received 100% **To pass** 80% or higher

Go to next item

S	iamese Networks							
To	tal points 10							
1.	Classification allows you to identify similarity between two things while siamese networks allow you to categorize things.	1/1 point						
		1/ 1 point						
	● False ○ True							
	○ Correct Correct.							
2.	Do the two subnetworks in a siamese network share the same parameters?	1/1 point						
	○ False							
	● True							
3.	When training a siamese network to identify duplicates, which pairs of questions from the following questions do you expect to have the highest cosine similarity?	1/1 point						
	Is learning NLP useful for me to get a job? (ANCHOR)							
	What should I learn to get a job? (POSITIVE)							
	Where is the job? (NEGATIVE)							
	Anchor, Positive							
	Anchor, Negative							
	Negative, Positive							
	Correct.							
4.	In the triplet loss function below, will decreasing the hyperparameter alpha from 0.5 to 0.2 require more, or less, optimization during training?	1 / 1 point						
	$\operatorname{diff} = \operatorname{s}(A, N) - \operatorname{s}(A, P)$							

$$\operatorname{diff} = \operatorname{s}(A, IV) - \operatorname{s}(A, I)$$

$$\mathcal{L}(A,P,N) = \max(diff + \alpha,0)$$

- Less
- O More.
- **⊘** Correct

 $\textbf{5.} \quad \text{The orange square below corresponds to the similarity score of question duplicates?}$

False

			0.7	-0.6	-0.4
			-0.6	0.4	0.1
			-0.4	0.1	0.5
	False				
	O True				
	Correct. They c	orrespond to non questic	on duplicates.		
		egative in this set of numb	oers assuming a	a duplicate pa	ir similarity of
	[-0.9,-0.4,0.4, 0.8]				
	-0.9				
	0.40.4				
	0.4				
	Correct Correct.				
	33.733.1				
7.	In one shot learning,	is any retraining required	when new clas	sses are added	d? For example
	○ True				·
	False				
	Correct Correct.				
8.	During training, you l	nave to update the weigh	ts of each parar	meters of the	subnetwork in
	False.				
	True.				
	Correct Correct. You up	date the same weight.			
9.	The mean negative is	defined as the closest of	f-diagonal valu	e to the diago	nal in each rov
	○ True				

1/1 point

Correct Correct.		

10. In what order are Siamese networks performed in lecture?

1/1 point

- Convert each input into an array of numbers
 - 2. Feed arrays into your model
 - 3. Compare v1, v2 using cosine similarity
 - 4. Test against a threshold
- 1. Convert each input into an array of numbers
 - 2. Feed arrays into your model
 - 3. Run logistic regression classifier
 - 4. Classify by using the probability
- 1. Convert each input into an array of numbers
 - 2. Feed arrays into your model
 - 3. Run soft-max classifier for all classes
 - 4. Take the arg-max of the probabilities
- 1. Convert each input into an array of numbers
 - 2. Feed arrays into your model
 - 3. Compare v1, v2 using euclidean distance
 - 4. Test against a threshold

⊘ Correct

Correct.