

## Congratulations! You passed!

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

Go to next item

## **LSTMs and Named Entity Recognition**

Total points 10

1.	Identify the correct order of the gates that information flows through in an LSTM unit.	1/1 point
	Onput gate, forget gate, output gate.	
	Forget gate, input gate, output gate.	
	Output gate, forget gate, input gate.	
	Forget gate, output gate, input gate	
2.	Which are some applications of LSTMs?	1/1 point
		1/1 point
	✓ Image captioning	
	✓ Next character prediction	
	✓ Chatbots	
	✓ Music composition	
	✓ Speech recognition	
3.	The tanh layer ensures the values in your network stay numerically stable, by squeezing all values between -1 and 1. This prevents any of the values from the current inputs from becoming so large that they make the other values insignificant.	1/1 point
	True	
	○ False	
	Correct.	

	Many to one	
	Many to many	
	One to many	
	<b>⊘</b> Correct	
	Correct.	
5.	Extract the named entities from the following sentence:	1/1 point
	Younes, a Moroccan artificial intelligence engineer, travelled to France for a conference.	
	Younes, Moroccan engineer, France.	
	O Younes, Moroccan, conference.	
	O Younes, Moroccan, engineer.	
	Younes, Moroccan, France.	
6.	In a vectorized representation of your data, equal sequence length allows more efficient batch processing.	1/1 point
	True.	
	○ False	
,	Which built in Duth on mothed would you use to iterate overvious test during the evaluation step? Assuming you are using a data generator.	
۱.	Which built-in Python method would you use to iterate over your test set during the evaluation step? Assuming you are using a data generator.	1/1 point
	Slice()	
	enumerate()  next()	
	list()	
	○ Correct     ○ Corre	
	Correct.	
Q	Why is it important to mask padded tokens when computing the loss?	4 / 4
٥.		1/1 point
	Padded tokens are not part of the data and are just used to help us keep the same sequence length for more efficient batch processing. We should not include their loss.	
	We add the loss of the padded tokens independently.	
	○ Correct     Correct.	
•	In which of the fell union and are should use train on Named Fettle Day and the state of CTV2	
<b>9</b> .	In which of the following orders should we train an Named Entity Recognition with an LSTM?	1/1 point
	Create a tensor for each input and its corresponding number  Ref. 130, 250, 513, 250, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 5100, 51000	
	<ul><li>2. Put them in a batch =&gt; 64, 128, 256, 512</li><li>3. Run the output through a dense layer</li></ul>	
	4. Feed it into an LSTM unit	
	5. Predict using a log softmax over K classes	

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(	Correct Correct.	
<b>10.</b> LS7	TMS solve vanishing/exploding gradient problems when compared to basic RNNs.	1/1 point
0	) False	
0	) True	
(	Correct Correct.	