

Microsoft: DAT236x Deep Learning Explained

Help

<u>Course</u> > <u>5 | Recurrent Neural Network and Long Short Term Memory</u> > <u>Knowledge Checks</u> > **Knowledge Checks**

Knowledge Checks

☐ Bookmark this page

DAT236x-M5-07

1/1 point (graded)

Which of the following aspects of a simple recurrent network contribute to the vanishing gradient problem?

- Large number of nodes in the hidden layers
- Large number of sequences
- Long sequences
- Short sequences

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

DAT236x-M5-08

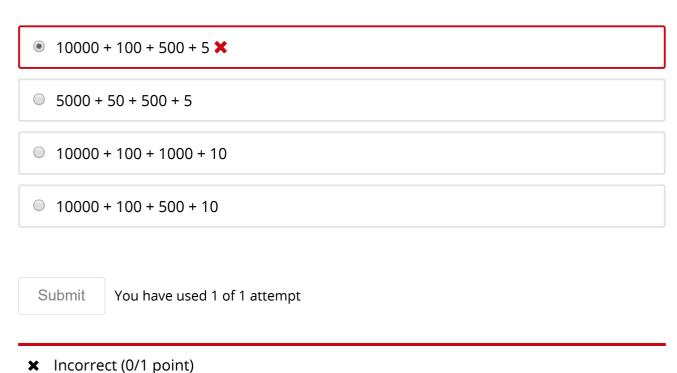
1/1 point (graded)

Which two techniques can be used to reduce overfitting?

Use L1/L2 regularization in the optimizer

Knowledge Checks | Knowledge Checks | DAT236x Courseware | edX Provide more data to the model Increase the number of hidden dimensions. Decrease dropout probability where dropout probability is defined as the chance of dropping a node Submit You have used 1 of 1 attempt ✓ Correct (1/1 point) DAT236x-M5-04 0/1 point (graded)

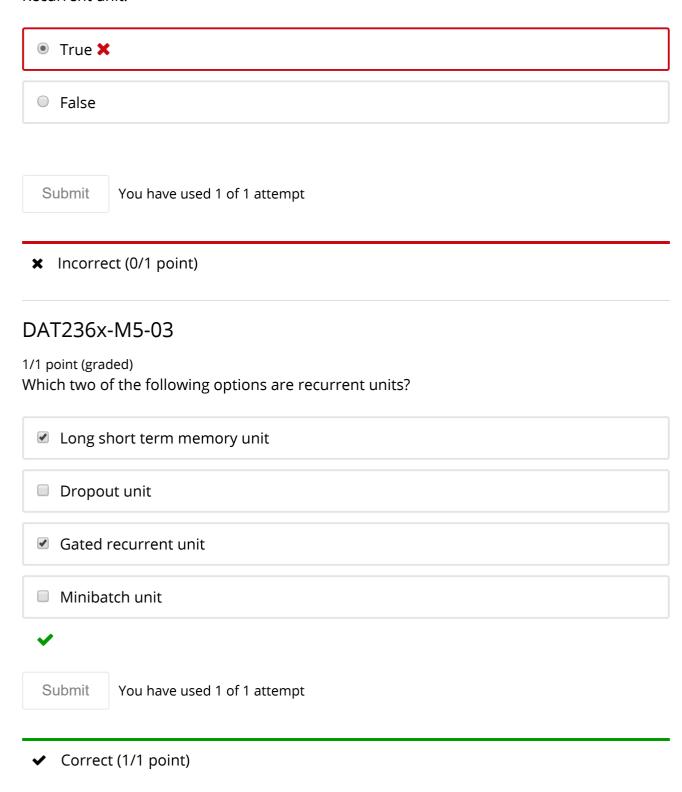
You have a network with two dense layers. The first layer has 10000 weights and 100 bias, the second layer has 1000 weights with 10 bias. If you add a dropout layer in-between the two layers with a dropout probability of 0.5, what would be the total number of parameters in the final trained model?



DAT236x-M5-02

0/1 point (graded)

True or False. Multi-layer perceptron can be thought of as a special case of a basic Recurrent unit.



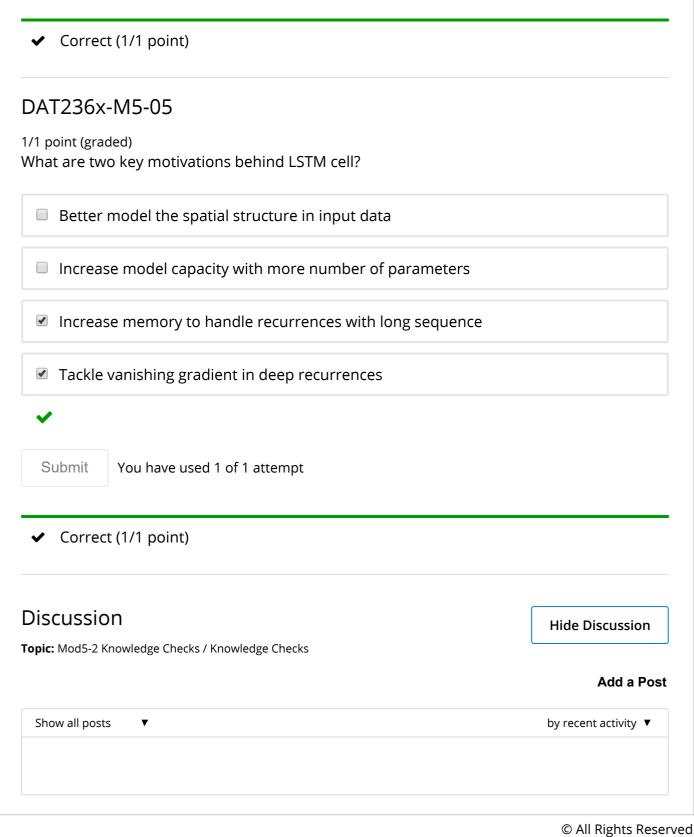
DAT236x-M5-06

	Knowledge Checks Knowledge Checks DAT236x Courseware edX
1/1 point (grad	
Which two s	tatements are true in the context of classic LSTM cell introduced in the lecture?
■ Both for the state of th	orget and update gates must have sigmoid activation
□ Either f	forget or update gates may have tanh activation
Forget activati	gate and update gate may have tanh activation if the input gate has tanh ion
✓ Input g units	gate can have ReLU activation function regardless of other gates' activation
✓	
Submit	You have used 1 of 1 attempt
✓ Correc	t (1/1 point)
DAT236x	-M5-01
1/1 point (grad	ded)
	e applications where recurrent networks can be used?
O Time se	eries forecasting
O Classify	ying words in a web query that names a commercial product
Classify	ying emails into SPAM in an inbox
	ying emails into SPAM in an inbox

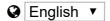
• All of the above

Submit

You have used 1 of 1 attempt







© 2012–2017 edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open edX logos are registered trademarks or trademarks of edX Inc. | 粤ICP备17044299号-2

















