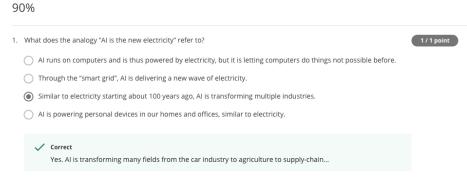
GRADE 100%

Introduction to deep learning

LATEST SUBMISSION GRADE



2. Which of these are reasons for Deep Learning recently taking off? (Check the three options that apply.)

1/1 point

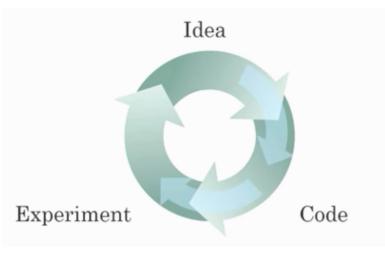
We have access to a lot more data.



- Neural Networks are a brand new field.
- Deep learning has resulted in significant improvements in important applications such as online advertising, speech recognition, and image recognition.
- ✓ Correct

 These were all examples discussed in lecture 3.
- We have access to a lot more computational power.
- Correct
 Yes! The development of hardware, perhaps especially GPU computing, has significantly improved deep learning algorithms' performance.
- 3. Recall this diagram of iterating over different ML ideas. Which of the statements below are true? (Check all that apply.)

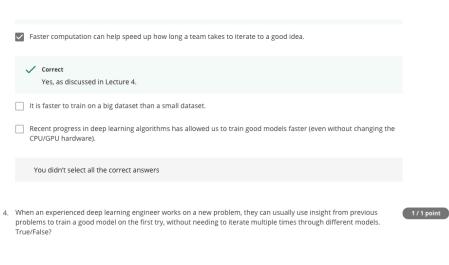




Being able to try out ideas quickly allows deep learning engineers to iterate more quickly.

✓ Correct

Yes, as discussed in Lecture 4.



○ True

False

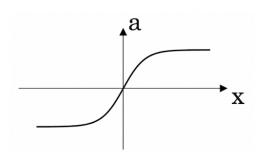
✓ Correct

Yes. Finding the characteristics of a model is key to have good performance. Although experience can help, it requires multiple iterations to build a good model.

5. Which one of these plots represents a ReLU activation function?

1/1 point

O Figure 1:



O Figure 2:

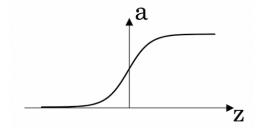
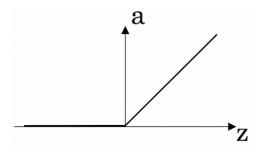
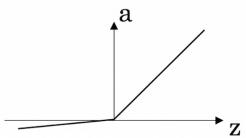
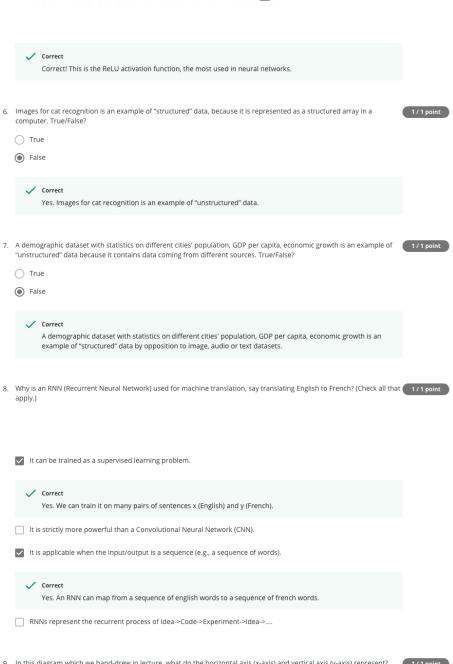


Figure 3:







9. In this diagram which we hand-drew in lecture, what do the horizontal axis (x-axis) and vertical axis (y-axis) represent?

Large Neural Network

Medium Neural Network

Small Network

Traditional learning algorithms

0	-axis is the amount of data -axis is the size of the model you train.	
_	-axis is the input to the algorithm -axis is outputs.	
0	-axis is the amount of data -axis (vertical axis) is the performance of the algorithm.	
_	-axis is the performance of the algorithm -axis (vertical axis) is the amount of data.	
~	Correct	
which of	ing the trends described in the previous question's figure are accurate (and hoping you got the axis labels right), the following are true? (Check all that apply.) reasing the training set size generally does not hurt an algorithm's performance, and it may help significantly. easing the training set size generally does not hurt an algorithm's performance, and it may help significantly.	1/1 point
	Correct Yes. Bringing more data to a model is almost always beneficial.	
	reasing the size of a neural network generally does not hurt an algorithm's performance, and it may help ificantly.	
	easing the size of a neural network generally does not hurt an algorithm's performance, and it may help ificantly.	
	Correct Yes. According to the trends in the figure above, big networks usually perform better than small networks.	