测验, 10 个问题

✔ 恭喜!您通过了!

下一项



1/1分

1。

What does the analogy "Al is the new electricity" refer to?

Similar to electricity starting about 100 years ago, Al is transforming multiple industries.

正确

Yes. All is transforming many fields from the car industry to agriculture to supply-chain...

- O Through the "smart grid", Al is delivering a new wave of electricity.
- Al runs on computers and is thus powered by electricity, but it is letting computers do things not possible before.
- Al is powering personal devices in our homes and offices, similar to electricity.



1/1分

2.

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

We have access to a lot more data.

正确

Yes! The digitalization of our society has played a huge role in this.

9/10 分 (90%)

正确

These were all examples discussed in lecture 3.

Neural Networks are a brand new field.

未选择的是正确的

We have access to a lot more computational power.

正确

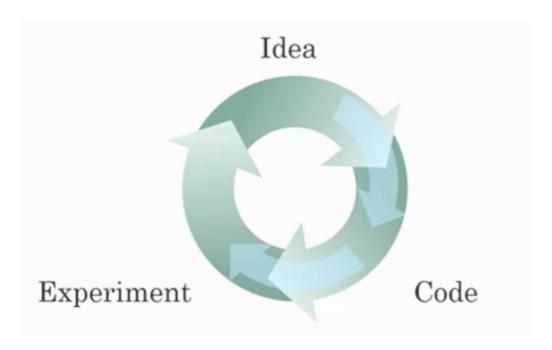
Yes! The development of hardware, perhaps especially GPU computing, has significantly improved deep learning algorithms' performance.



1/1分

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.

	Faster computation can help speed up how long a team takes to iterate to a good idea.
正确	
Yes, a	as discussed in Lecture 4.
	It is faster to train on a big dataset than a small dataset.
未选择的是正确的	
	Recent progress in deep learning algorithms has allowed us to train
	good models faster (even without changing the CPU/GPU hardware). $ \\$
正确	
Yes. F	For example, we discussed how switching from sigmoid to ReLU
activa	ation functions allows faster training.



1/1分

4。

When an experienced deep learning engineer works on a new problem, they can usually use insight from previous problems to train a good model on the first try, without needing to iterate multiple times through different models. True/False?

True

False

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.



Which one of these plots represents a ReLU activation function?

Figure 1:

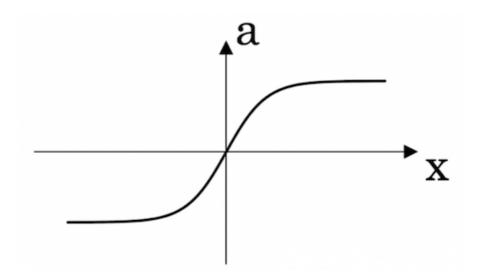


Figure 2:

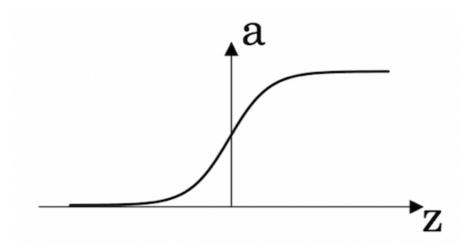
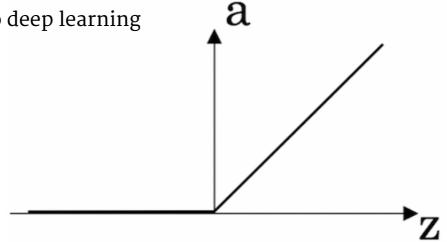


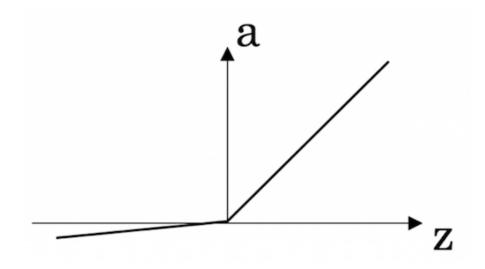
Figure 3:



正确

Correct! This is the ReLU activation function, the most used in neural networks.

Figure 4:



1/1分

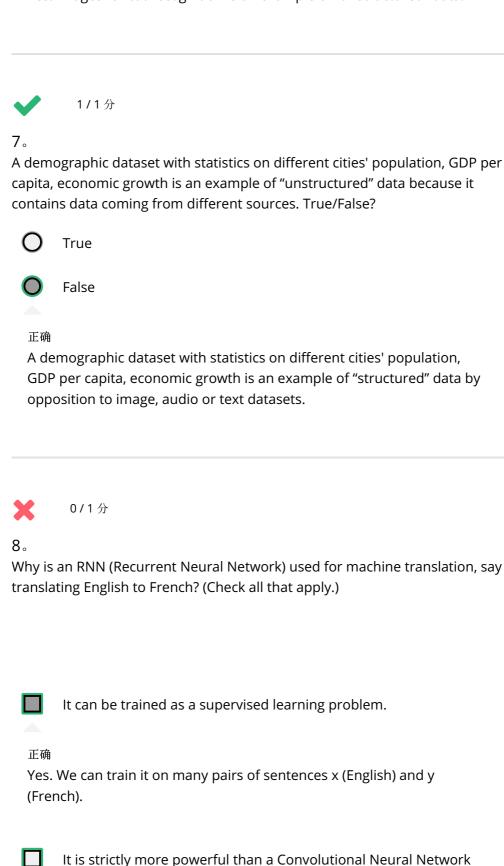
6.

Images for cat recognition is an example of "structured" data, because it is represented as a structured array in a computer. True/False?

True

正确

Yes. Images for cat recognition is an example of "unstructured" data.

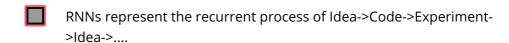


未选择的是正确的

(CNN).

正确

Yes. An RNN can map from a sequence of english words to a sequence of french words.



这个选项的答案不正确

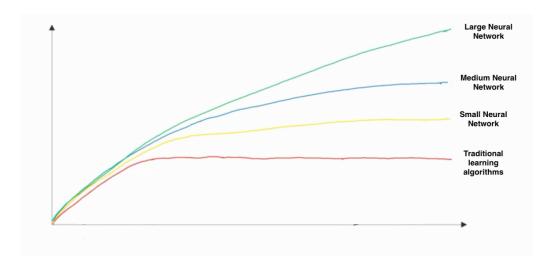
No. RNNs are a model type. The iterative process of developing DL systems is a completely separate concept.



1/1分

9。

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



- O
- x-axis is the amount of data
- y-axis (vertical axis) is the performance of the algorithm.



正确



• x-axis is the input to the algorithm

Decreasing the training set size generally does not hurt an algorithm's

performance, and it may help significantly.

未选择的是正确的

9/10 分 (90%)