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✔ 恭喜!您通过了!

下一项



1/1分

1。

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

- Al runs on computers and is thus powered by electricity, but it is letting computers do things not possible before.
- Through the "smart grid", Al is delivering a new wave of electricity.
- Al is powering personal devices in our homes and offices, similar to electricity.
- Similar to electricity starting about 100 years ago, Al is transforming multiple industries.



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



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 computational power.

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

Deep learning has resulted in significant improvements in important applications such as online advertising, speech recognition, and image recognition.

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 data.

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



in this.

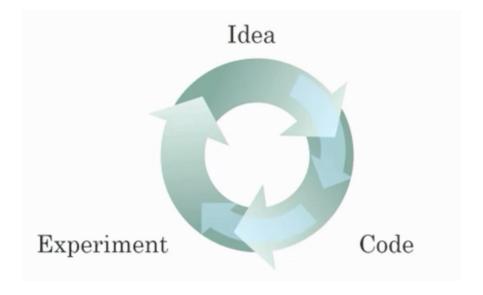
1/1分

3.

Recall this diagram of iterating over different ML ideas. Which of Introduction for deap learninge? (Check all that apply.)

测验, 10 个问题

10/10 分 (100%)



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

正确

Yes, as discussed in Lecture 4.

Faster computation can help speed up how long a team takes to iterate to a good idea.

正确

Yes, 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).

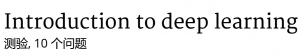
正确

Yes. For example, we discussed how switching from

sigmoid to ReLU activation functions allows faster training. Introduction to deep learning

111110dddCtiofi to deep feariffing 10/10 分 (100%) 测验, 10 个问题

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
正确 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.
✔ 1/1分
5。 Which one of these plots represents a ReLU activation function?
Figure 1:



10/10 分 (100%)

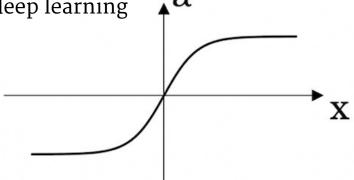


Figure 2:

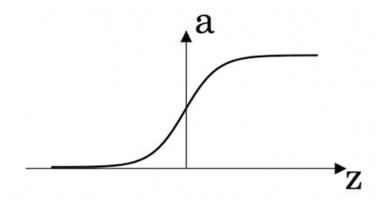
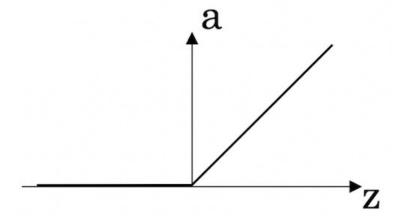


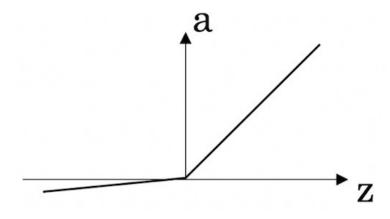
Figure 3:



in neural networks.

10/10 分 (100%)

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

False

正确

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

Introduct 测验, 10 个问题	A demographic dataset with statistics on different cities' 中的中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央
	True
	● False
	正确 A demographic dataset with statistics on different cities' population, GDP per capita, economic growth is an example of "structured" data by opposition to image, audio or text datasets.
	8。 Why is an RNN (Recurrent Neural Network) used for machine translation, say translating English to French? (Check all that apply.)
	☑ It can be trained as a supervised learning problem.
	正确 Yes. We can train it on many pairs of sentences x (English) and y (French).
	It is strictly more powerful than a Convolutional Neural Network (CNN).
	未选择的是正确的
	It is applicable when the input/output is a sequence (e.g.,

a sequence of words).

测验, 10 个问题

Introductior deep learning

who, 10 个问题

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

10/10 分 (100%)

RNNs represent the recurrent process of
ldea->Code->Experiment->ldea->

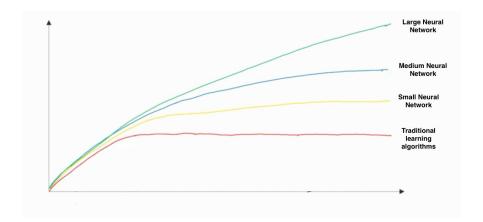
未选择的是正确的



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?





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

正确

• x-axis is the performance of the algorithm

• y-axis (vertical axis) is the amount of data.

Introducti 测验, 10 个问题	 x-axis is the amount of data on to deep learning y-axis is the size of the model you train. x-axis is the input to the algorithm y-axis is outputs. 	10/10 分 (100%)
	1/1分 10。 Assuming the trends described in the previous question's figure are accurate (and hoping you got the axis labels right), which of the following are true? (Check all that apply.)	
	Increasing the training set size generally does not hurt an algorithm's performance, and it may help significantly. 正确 Yes. Bringing more data to a model is almost always beneficial.	
	Decreasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.	
	Decreasing the size of a neural network generally does not hurt an algorithm's performance, and it may help significantly.	
	Increasing the size of a neural network generally does not hurt an algorithm's performance, and it may help significantly.	

Yes. According to the trends in the figure above, big

Introductio _{测验, 10} 个问题	networks usually perform better than small networks. On to deep learning	10/10 分 (100%)