Introduction to deep learning Quiz, 10 questions

✓ Congratulations! You passed!

Next Item



1/1 point

1.

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

- Through the "smart grid", Al is delivering a new wave of electricity.
- Similar to electricity starting about 100 years ago, AI is transforming multiple industries.

Correct

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

- Al is powering personal devices in our homes and offices, similar to electricity.
- Al runs on computers and is thus powered by electricity, but it is letting computers do things not possible before.

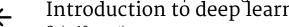


1/1 point

2.

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

Introduction to deep learning



Quiz, 10 questions

	Deep learning has resulted in significant improvements in important applications such as online advertising, speech recognition, and image recognition.
Corr o	ect se were all examples discussed in lecture 3.

Correct

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

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.

Neural Networks are a brand new field.

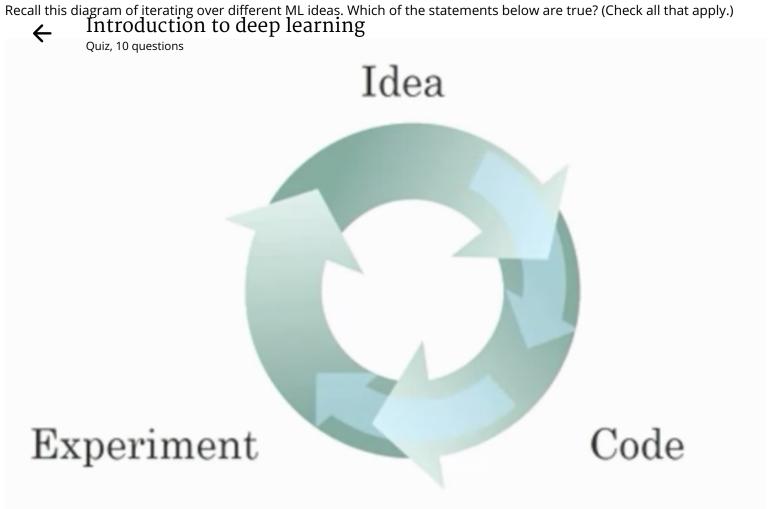
We have access to a lot more data.

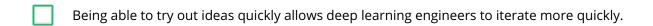
Un-selected is correct



1/1 point

3.

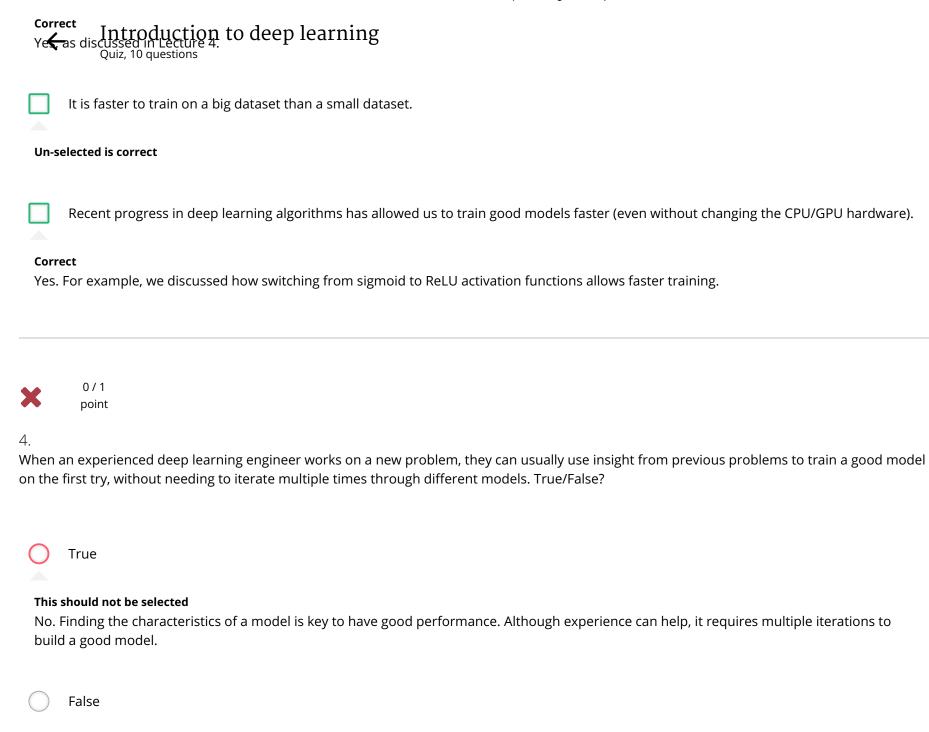




Correct

Yes, as discussed in Lecture 4.

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





5.

Which one of these plots represents a ReLU activation function?

Figure 1:

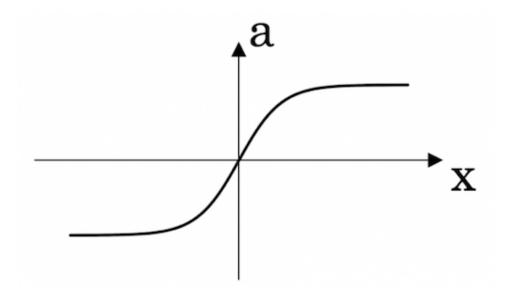


Figure 2:

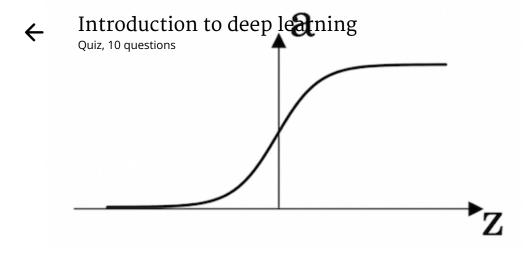
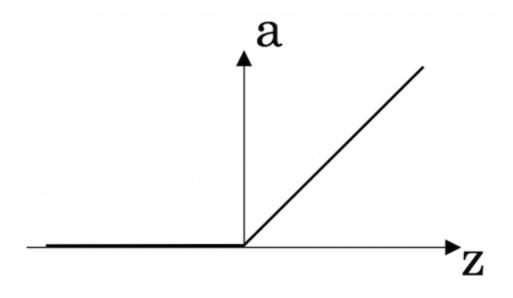
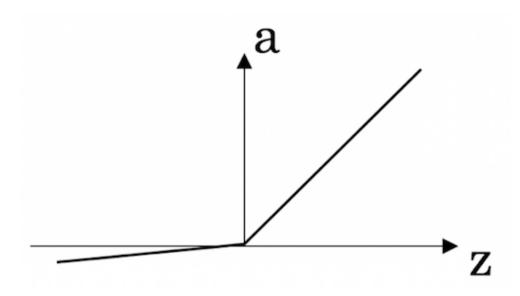


Figure 3:



Correct! This is, the Rel Wastivation function, the most used in neural networks.

Figure 4:





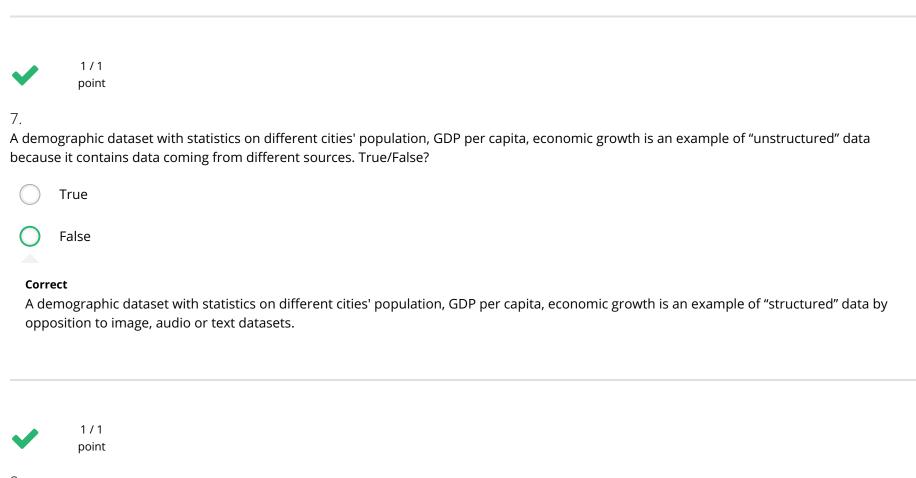
1/1 point

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

Correct Introduction to deep learning Yes. Imageo ព្រឹទ្ធក្រ ខេត្តព្រឹទ្ធវិទ្ធារូវition is an example of "unstructured" data.



Why is an RNN (Recurrent Neural Network) used for machine translation, say translating English to French? (Check all that apply.)

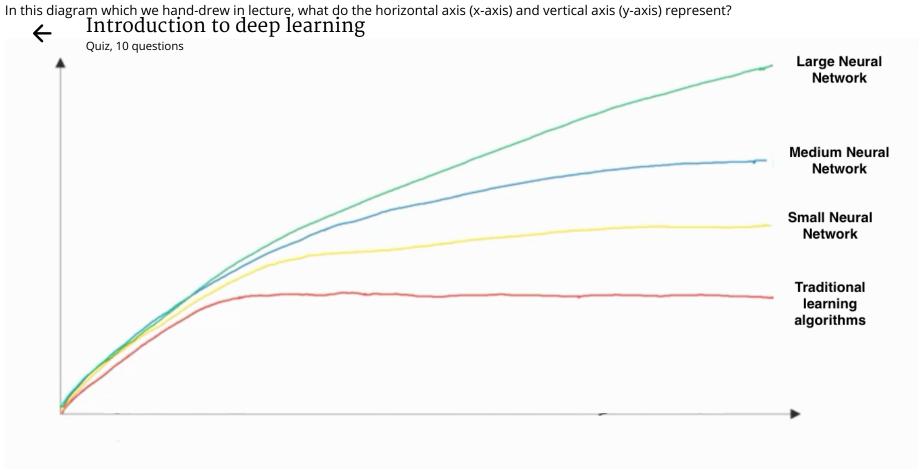
It can be trained as a supervised learning problem.

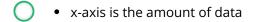
Yes. We cap train it was pairs of sentences x (English) and y (French).	
It is strictly more powerful than a Convolutional Neural Network (CNN).	
Un-selected is correct	
It is applicable when the input/output is a sequence (e.g., a sequence of words).	
Correct Yes. An RNN can map from a sequence of english words to a sequence of french words.	
RNNs represent the recurrent process of Idea->Code->Experiment->Idea->	
Un-selected is correct	



1/1 point

9.





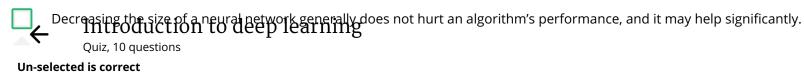
• y-axis (vertical axis) is the performance of the algorithm.

Correct

• x-axis is the performance of the algorithm

 y-axis (vertical axis) is the amount of data. Introduction to deep learning Quiz, 10 questions x-axis is the input to the algorithm y-axis is outputs.
x-axis is the amount of data
y-axis is the size of the model you train.
1/1 point
0. ssuming the trends described in the previous question's figure are accurate (and hoping you got the axis labels right), which of the following are ue? (Check all that apply.)
Decreasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.
Un-selected is correct
Increasing the size of a neural network generally does not hurt an algorithm's performance, and it may help significantly.
Correct Yes. According to the trends in the figure above, big networks usually perform better than small networks.
Increasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.
Correct

Yes. Bringing more data to a model is almost always beneficial.



5 R F