Introduction to deep learning

Quiz, 10 questions

8/10 points (80%)

✓ Congratulations! You passed!

Next Item



1/1 points

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, Al is transforming multiple industries.

Correct

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

- 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 points

2.

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

We have access to a lot more computational power.

Correct

Yes! The development of hardware, perhaps especially GPU computing, has Introduction; the factories production algorithms performance.

Quiz, 10 questions

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

Un-selected is correct

Neural Networks are a brand new field.

Un-selected is correct

We have access to a lot more data.

Correct

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



0/1 points

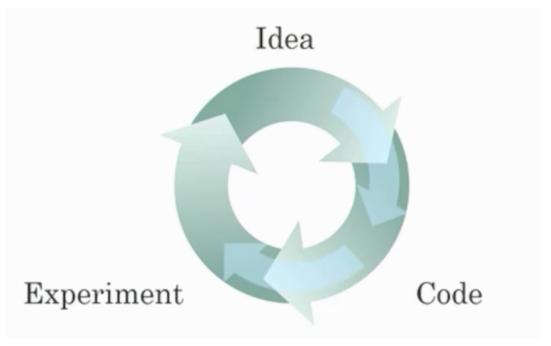
3.

Recall this diagram of iterating over different ML ideas. Which of the statements

Introduction to deep learning apply.)

Quiz, 10 questions

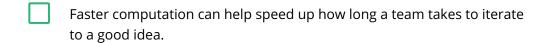
8/10 points (80%)



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

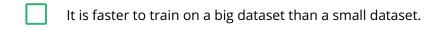
Correct

Yes, as discussed in Lecture 4.

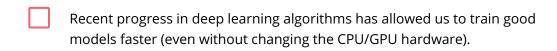


Correct

Yes, as discussed in Lecture 4.



Un-selected is correct



This should be selected

Introduction to deep learning

8/10 points (80%)

Quiz, 10 questions



1/1 points

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

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.



1/1 points

5.

Which one of these plots represents a ReLU activation function?

Figure 1:

Quiz, 10 questions

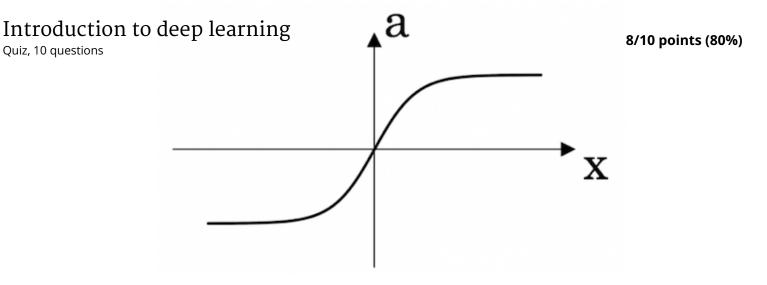


Figure 2:

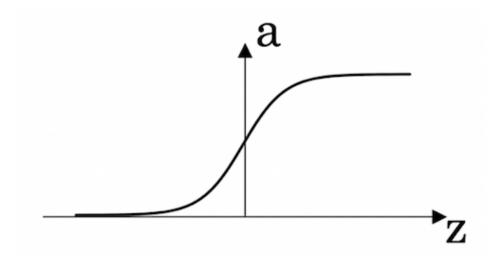
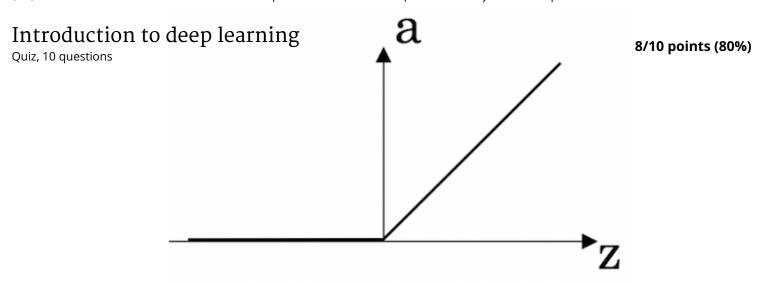


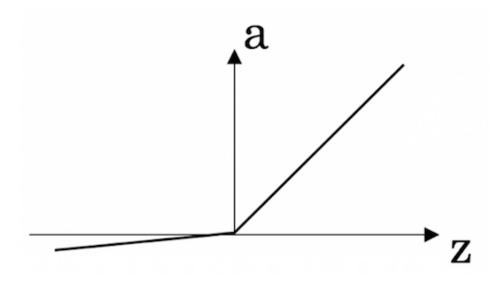
Figure 3:



Correct

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

Figure 4:



/

1/1 points

/12/2017	Coursera Online Courses From Top Universities. Join for Free Coursera	
ntroduc Quiz, 10 questi	6. Ctionate deep learining an example of "structured" data, because it is ons represented as a structured array in a computer. True/False?	8/10 points (80%)
	True	
	False	
	Correct Voc. Images for cat recognition is an example of "unstructured" data	
	Yes. Images for cat recognition is an example of "unstructured" data.	
	1/1 points	
	7. A demographic dataset with statistics on different cities' population, GDP per capita, economic growth is an example of "unstructured" data because it contain data coming from different sources. True/False?	ıs
	True	
	False	
	Correct 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.	
	0 / 1 points	
	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.

Introduction শিক বৈশি চু শিক্ষাপানার

Quiz, 10 questions

8/10 points (80%)

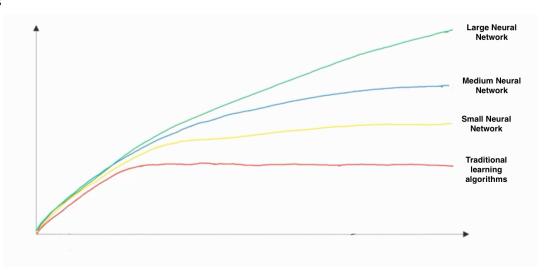
Un-se	It is strictly more powerful than a Convolutional Neural Network (CNN).
	It is applicable when the input/output is a sequence (e.g., a sequence of words).
	ect An RNN can map from a sequence of english words to a sequence of ch words.
	RNNs represent the recurrent process of Idea->Code->Experiment->Idea->
Un-se	elected is correct
9.	1 / 1 points

In this diagram which we hand-drew in lecture, what do the horizontal axis (x-axis)

Introduction to deep learning sent?

8/10 points (80%)

Quiz, 10 questions



- x-axis is the amount of data
 - y-axis is the size of the model you train.
- x-axis is the performance of the algorithm
 - y-axis (vertical axis) is the amount of data.
- x-axis is the input to the algorithm
 - y-axis is outputs.
- x-axis is the amount of data
 - y-axis (vertical axis) is the performance of the algorithm.

Correct



1/1 points

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.)