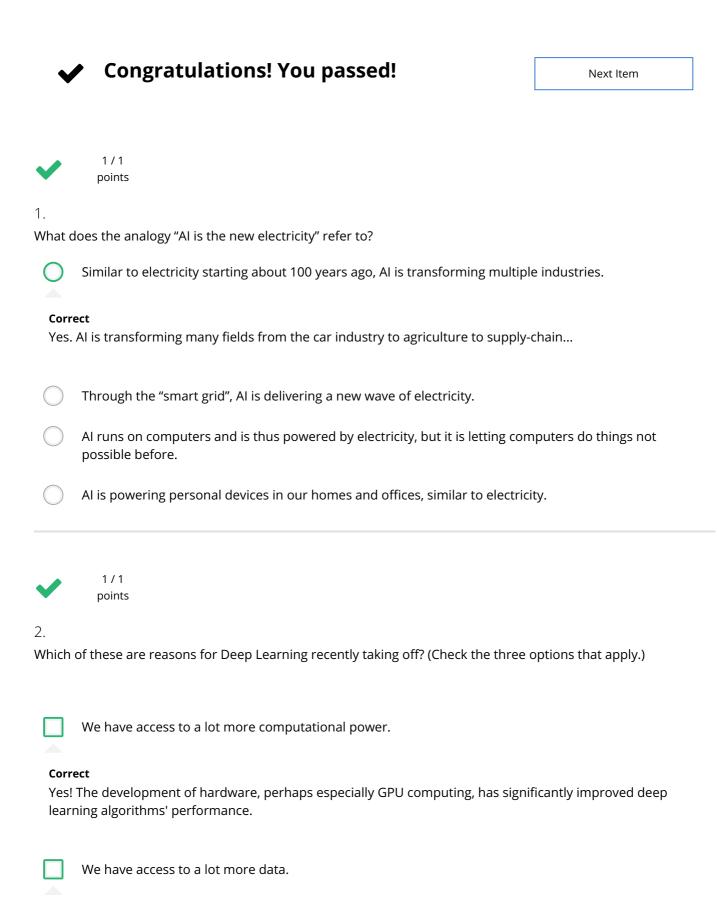
Introduction to deep learning

Quiz, 10 questions



Correct

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

Introduction to deep learning field.

Quiz, 10 questions
Un-selected is correct

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

Correct

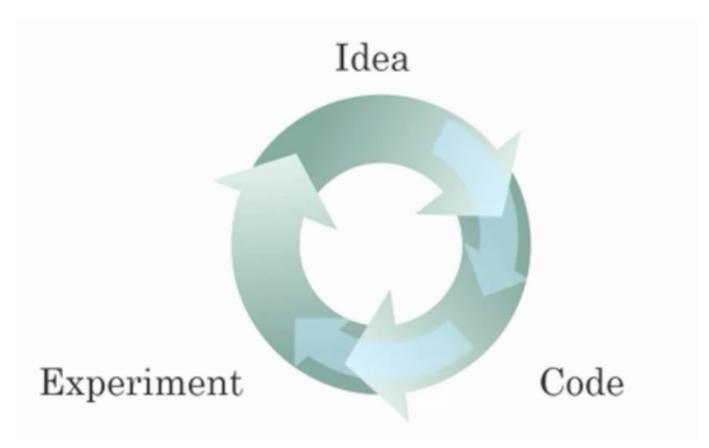
These were all examples discussed in lecture 3.



points

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.





1/1 points

5.

Which one of these plots represents a ReLU activation function?

Figure 1:

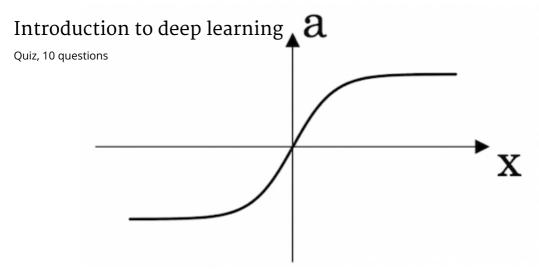


Figure 2:

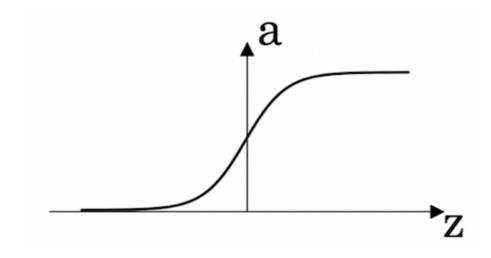
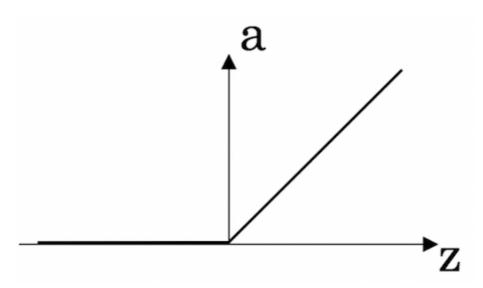


Figure 3:

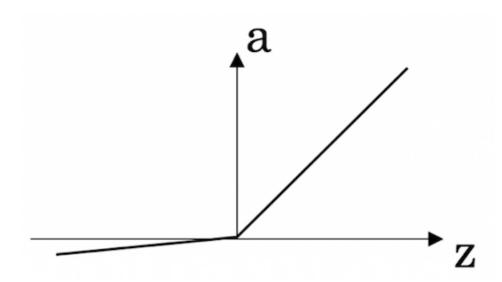


Introduction to deep learning

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

Figure 4:





points

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



Correct

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 contains data coming from different sources. True/False?

Introduction to deep learning

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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.



1/1 points

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.
Corre	ect 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).
Un-s	elected is correct
	It is applicable when the input/output is a sequence (e.g., a sequence of words).
Corre Yes.	ect An RNN can map from a sequence of english words to a sequence of french words.

Un-selected is correct



points

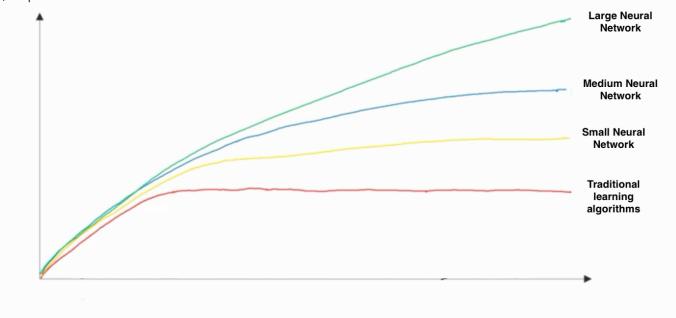
9.

RNNs represent the recurrent process of Idea->Code->Experiment->Idea->....

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

Introduction to deep learning





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

Correct

• 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 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.)

Increasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.

correct Introduction to deep learning most always beneficial.
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Quiz, 10 que	estions
	Decreasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.
Un-se	elected is correct
	Increasing the size of a neural network generally does not hurt an algorithm's performance, and it may help significantly.
Corre	ect According to the trends in the figure above, big networks usually perform better than small networks.
	Decreasing the size of a neural network generally does not hurt an algorithm's performance, and it may help significantly.
Un-se	elected is correct