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, Al 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.



0/1 point

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.

Correct

Yes! The development of hardware, perhaps especially GPU computing, has significantly

improved deep learning algorithms' performance. Introduction to deep learning

Quiz, 10 questions

9/10 points (90%)

We have access to a lot more data.

This should be selected

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.

Neural Networks are a brand new field.

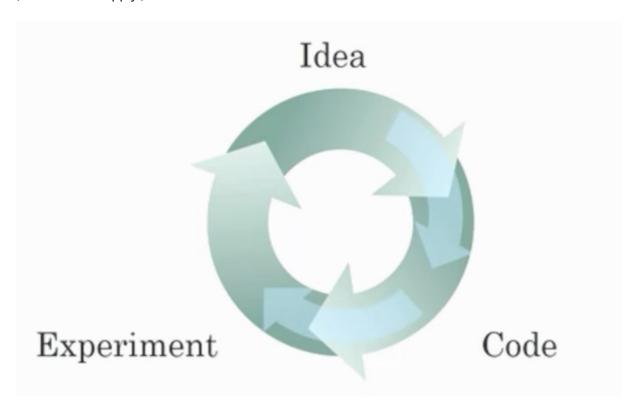
Un-selected is correct



1/1 point

Introductions to deep the trainferent ML ideas. Which of the statements below and points (90%)

Quiz, (Checkialishat apply.)



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

Correct

Yes, as discussed in Lecture 4.

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

Correct

Yes, as discussed in Lecture 4.

It is faster to train on a big dataset than a small dataset.

Un-selected is correct

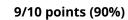
Recent progress in deep learning algorithms has allowed us to train good models faster (even without changing the CPU/GPU hardware).

~	1/1 point
4.	
from pre times thr	experienced deep learning engineer works on a new problem, they can usually use insight vious problems to train a good model on the first try, without needing to iterate multiple ough different models. True/False?
() T	rue
	alse
● F	ماعد
Correct	

1/1 point

Figure 1:

Which one of these plots represents a ReLU activation function?



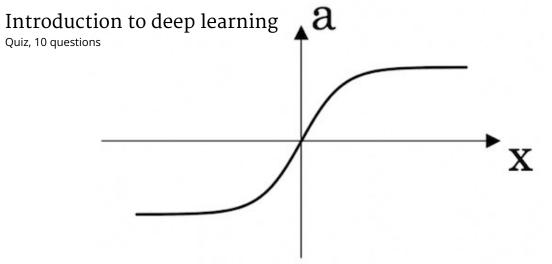


Figure 2:

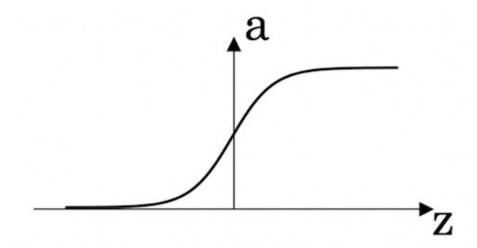


Figure 3:

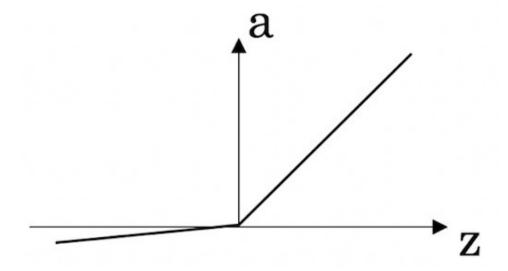
Introduction to deep learning Quiz, 10 questions

9/10 points (90%)

Correct

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

Figure 4:



\bigcirc	True
O	False
Corre Yes.	ect Images for cat recognition is an example of "unstructured" data.
/	1 / 1 point
rowth	ographic dataset with statistics on different cities' population, GDP per capita, economic is an example of "unstructured" data because it contains data coming from different s. True/False?
\bigcirc	True
O	False
	mographic dataset with statistics on different cities' population, GDP per capita, omic growth is an example of "structured" data by opposition to image, audio or text
/	1 / 1 point

It can be trained as a supervised learning problem.

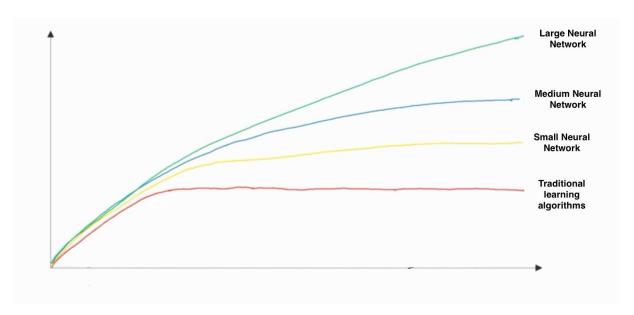
Intro िएट्स i Quiz, 10 व्यटिङ्स ोशिह	on to deep learning can train it on many pairs of sentences x (English) and y (French).	9/10 points (90%)
lt i	s strictly more powerful than a Convolutional Neural Network (CNN).	
Un-selec	ted is correct	
✓ It i	s applicable when the input/output is a sequence (e.g., a sequence of words)	
Correct Yes. An	RNN can map from a sequence of english words to a sequence of french wor	ds.
RN	NNs represent the recurrent process of Idea->Code->Experiment->Idea->	



1/1 point

Un-selected is correct

9. Intipoluction to idemphasize (90%) Quiz, 19-axis) represent?



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

Correct

- 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.

Introduction to deep learning

9/10 points (90%)

Quiz, 10Quest	sions 9/10 points (9		
Assum	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.)		
	Decreasing the size of a neural network generally does not hurt an algorithm's performance, and it may help significantly.		
Un-s	elected is correct		
	Increasing the size of a neural network generally does not hurt an algorithm's performance, and it may help significantly.		
	ect According to the trends in the figure above, big networks usually perform better than II networks.		
	Increasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.		
Corr Yes.	ect 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.		
Un-s	elected is correct		



