

- Some algorithms are specifically designed to run experiments faster.
- Without better hardware, there is no way to train models faster.
 - This should not be selected

No. The creation of better algorithms can reduce the time needed to train a model. Recall the effect of introducing the ReLU function.

- With larger datasets, the iteration process is faster.
- Experiments finish faster, producing better ideas through increased iteration tempo.

✓ Correct

Yes. The experiments help to test ideas, by getting the feedback from the experiments new variations can be tested and the results might indicate new directions to explore.

4. Neural networks are good at figuring out functions relating an input x to an output y given enough examples. True/False?

1/1 point

- True
- False

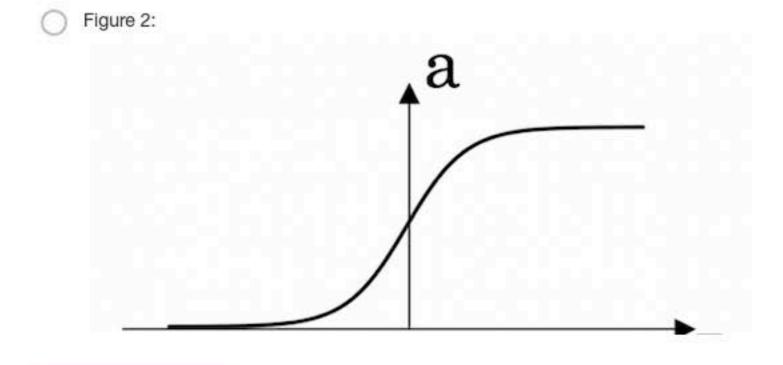


⊘ Correct

Exactly, with neural networks, we don't need to "design" features by ourselves. The neural network figures out the necessary relations given enough data.

5. Which one of these plots represents a ReLU activation function?

1/1 point



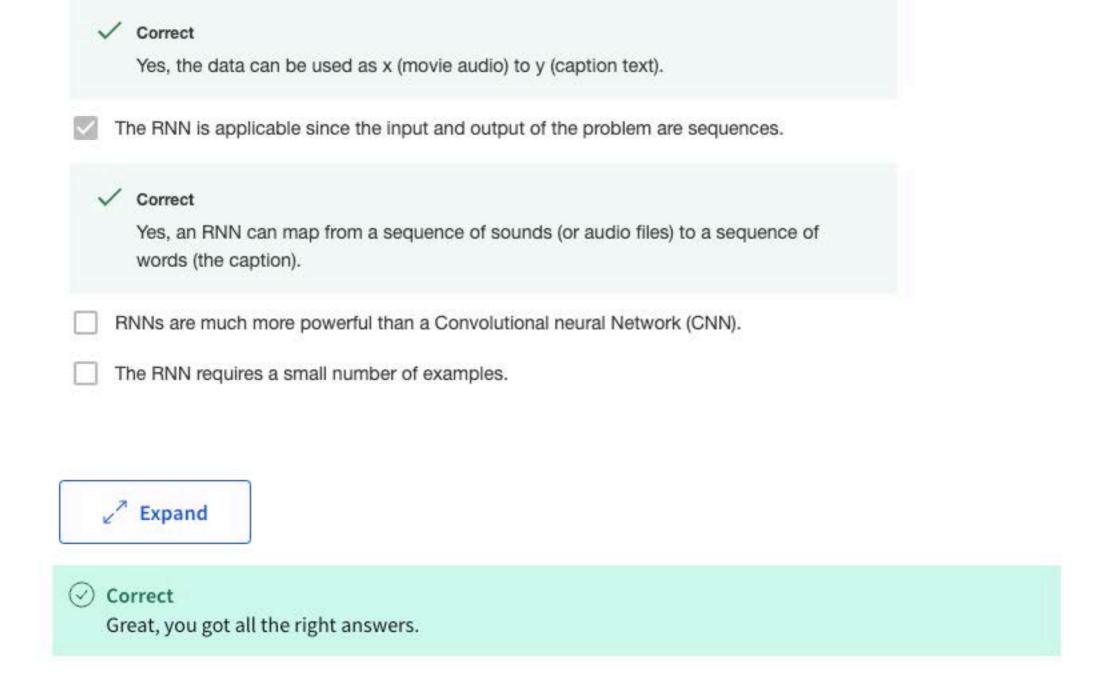


⊘ Correct

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

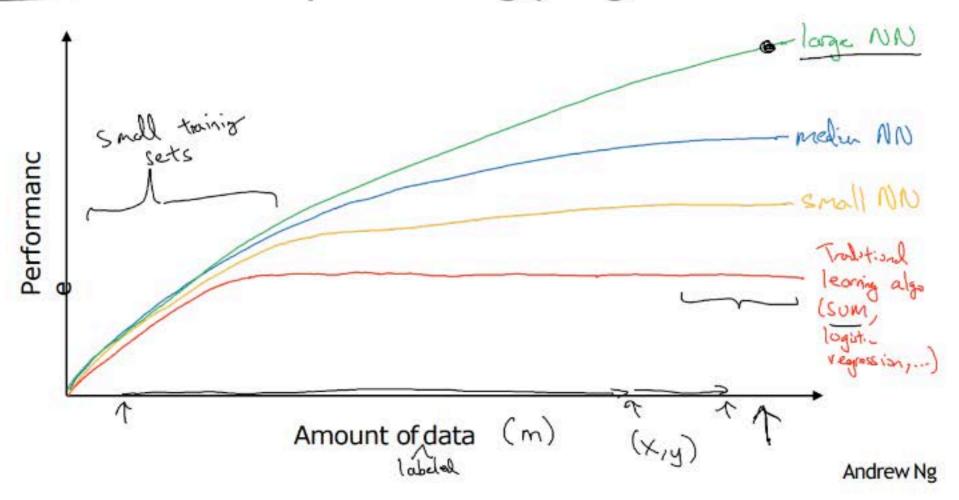
0.	This is an example of "structured" data, because they are represented as arrays in a computer. True/False?	1/1 point
	True Yes. The data can be represented by columns of data. This is an example of structured data, unlike images of the animal.	
	False No. The data can be represented by columns of data. This is an example of structured data, unlike images of the animal.	
	∠ Expand	
	⊘ Correct	
7.	A dataset is composed of age and weight data for several people. This dataset is an example of "structured" data because it is represented as an array in a computer. True/False? False True	1/1 point
	Expand	
	 ✓ Correct Yes, the sequences can be represented as arrays in a computer. This is an example of structured data. 	
8.	Why can an RNN (Recurrent Neural Network) be used to create English captions to French movies? Choose all that apply.	1/1 point
	It can be trained as a supervised learning problem.	
	✓ Correct	

Yes, the data can be used as x (movie audio) to y (caption text).



9.

Scale drives deep learning progress



Suppose the information given in the diagram is accurate. We can deduce that when using large training sets, for a model to keep improving as the amount of data for training grows, the size of the neural network must grow. True/False?

○ False	
① True	
∠ Expand	
✓ Correct You the graph shows that after a certain amount of data is fed to a NN it stops increasing its performance.	
Yes, the graph shows that after a certain amount of data is fed to a NN it stops increasing its performance. To increase the performance it is necessary to use a larger model.	
Assuming the trends described in the previous question's figure are accurate (and hoping you got the axis labels ight), which of the following are true? (Check all that apply.)	1/1 poir
Decreasing the size of a neural network generally does not hurt an algorithm's performance, and it may help significantly.	
Decreasing the training set size 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.	
✓ Correct You Asserting to the trends in the figure above, his networks youghly perform better	
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.	
∠ Expand	
Great, you got all the right answers.	