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.

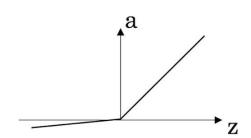
Un-selected is correct

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

Correct
Yes. For example, we discussed how switching from sigmoid to ReLU activation

functions allows faster training.

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 Introduction to the deepple at many grouph different models. True/False? ı / 1 Qu<mark>jgoji ပု</mark>ရှုuestions True False Correct Ves. 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. 5. Which one of these plots represents a ReLU activation function? Figure 1: ₄a \mathbf{x} Figure 2: a \mathbf{z} Figure 3: a \mathbf{z} Correct Correct! This is the ReLU activation function, the most used in neural networks. Figure 4:



 $\begin{tabular}{ll} \textbf{Images for cat recognition is an example of "structured" data, because it is represented as a structured array in a computer. True/False? \end{tabular}$

1/1 points

True

○ False

Carrag

Yes. Images for cat recognition is an example of "unstructured" data.

Quiz, 10 ques	growth is an example of "unstructured" data because it contains data coming from different sources. True/False?
points	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.
	$\label{eq:correct} \textbf{Yes. We can train it on many pairs of sentences} \times (\textbf{English}) \ \text{and} \ y \ (\textbf{French}).$
	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),
	This should be selected
	RNNs represent the recurrent process of Idea->Code->Experiment->Idea-> Un-selected is correct
	Unserecteurs correct
•	9. In this diagram which we hand-drew in lecture, what do the horizontal axis (x-axis) and vertical axis (y-axis) represent?
1 / 1 points	Large Neural Network
	Medium Neural Network
	Small Neural Network
	Traditional learning algorithms
	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 performance of the algorithm
	y-axis is the periormance of the agontum y-axis (vertical axis) is the amount of data.
	x-axis is the amount of data y-axis is the size of the model you train.
	· · · · · · · · · · · · · · · · · · ·
~	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.)
1 / 1 points	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.
	Decreasing the size of a neural network 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.

Un-selected is correct

← Introduction to deep learning

Quiz, 10 questions

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