1.	Which of the following best describes the role of AI in the expression "an AI-powered society"?			
	<ul> <li>Al is an essential ingredient in realizing tasks, in industry and in personal life.</li> <li>Al controls the power grids for energy distribution, so all the power needed for industry and in daily life comes from Al.</li> <li>Al helps to create a more efficient way of producing energy to power industries and personal devices.</li> </ul>			
	∠ <sup>™</sup> Expand			
	Correct In an Al-powered society Al plays a fundamental role to complete most tasks, in industry and personal life.			
Recent progress in deep learning algorithms has allowed us to train good models faster (even without changing the CF hardware).				
	✓ Correct  Yes. For example, we discussed how switching from sigmoid to ReLU activation functions allows faster training.			
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.				
	Being able to try out ideas quickly allows deep learning engineers to iterate more quickly.			
	✓ Correct Yes, as discussed in Lecture 4.			

Images for cat recognition is an example of "structured" data, because it is represented as a structured array in a computer. True/False?			
False			
○ True			
∠ <sup>7</sup> Expand			
<ul> <li>✓ Correct</li> <li>Yes. Images for cat recognition are examples of "unstructured" data.</li> </ul>			
Which of the fall and a green property of attraction of data? Chance all that amply			
Which of the following are examples of structured data? Choose all that apply.			
A set of audio recordings of a person saying a single word.			
A dataset of weight, height, age, the sugar level in the blood, and arterial pressure.			
✓ Correct Yes, this data can be presented in a table. This is an example of "structured" data.			
A dataset with short poems.			
A dataset with zip code, income, and name of a person.			
✓ Correct			
Yes, this data can be presented in a table. This is an example of "structured" data.			
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.			
<ul> <li>Correct</li> <li>Yes. We can train it on many pairs of sentences x (English) and y (French).</li> </ul>			
It is 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 words.			
RNNs represent the recurrent process of Idea->Code->Experiment->Idea->			
It is strictly more powerful than a Convolutional Neural Network (CNN).			

		x-axis is the amount of data
		<ul> <li>y-axis is the size of the model you train.</li> </ul>
		x-axis is the amount of data
		<ul> <li>y-axis (vertical axis) is the performance of the algorithm.</li> </ul>
		x-axis is the input to the algorithm
		• y-axis is outputs.
		,
		x-axis is the performance of the algorithm
		y-axis (vertical axis) is the amount of data.
		y axis (vertical axis) is the amount of data.
_	the trends described in the	e 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.
	Decreasing the training	g set size generally does not hurt an algorithm's performance, and it may help significantly.
	Increasing the training	g set size generally does not hurt an algorithm's performance, and it may help significantly.
	increasing the duming	set size generally does not have an algorithm a performance, and it may map significantly.
	✓ Correct	
	Yes. Bringing more	data to a model is almost always beneficial.
	Increasing the size of a	a neural network generally does not hurt an algorithm's performance, and it may help significantly.
	✓ Correct	
		ne trends in the figure above, big networks usually perform better than small networks.
_		statistics on different cities' population, GDP per capita, economic growth is an example of "unstructured"
data bec	ause it contains data	coming from different sources. True/False?
☐ True		
☑ False		
When ar	experienced deep le	earning engineer works on a new problem, they can usually use insight from previous problems to train a
		vithout needing to iterate multiple times through different models. True/False?
☐ True		
False	e	