## Congratulations! You passed!

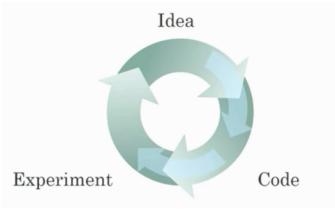
Grade received~90%

**Latest Submission** Grade 90%

To pass 80% or higher

Retake the assignment in 48

1.	Which of the following are some aspects in which AI has transformed business?	1/1 point
	Web searching and advertisement. Eliminating the need for health care services. Creating an Al-powered society. Al has not been able to transform businesses.	
2.	Yes. All has helped to make a fit between services or results and consumers or queries.  Which of the following are reasons that didn't allow Deep Learning to be developed during the '80s?  People were afraid of a machine rebellion.  The theoretical tools didn't exist during the 80's.	1/1 point
	✓ Correct  Yes. Deep Learning methods need a lot of computational power, and only recently the use of GPUs has accelerated the experimentation with Deep Learning.  Interesting applications such as image recognition require large amounts of data that were not available.  ✓ Correct  Yes. Many resources used today to train Deep Learning projects come from the fact that our society digitizes almost everything, creating a large dataset to train Deep Learning models.	
3.	Correct Great, you got all the right answers.  Recall this diagram of iterating over different ML ideas. Which of the statements below are true? (Check all that	1/1 point
	Idea	a, a point



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

Yes. For example, we discussed how switching from sigmoid to ReLU activation functions allows faster training. It is faster to train on a big dataset than a small dataset.

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

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 can be trained as a supervised learning problem.	
✓ Correct	
Yes. We can train it on many pairs of sentences x (English) and y (French).	
lt is strictly more powerful than a Convolutional Neural Network (CNN).	
∠ <sup>n</sup> Expand	
Correct Great, you got all the right answers.	
	1/1
•	1/1 point
Scale drives deep learning progress	
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Traditional learning also	
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Vegras iar,)	
Amount of data (m) (X,y) Andrew Ng	
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	
True	
∠ <sup>7</sup> Expand	
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.	
to include the performance it is necessary to see a target model.	
<ol><li>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.)</li></ol>	1/1 point
Decreasing the training set size generally does not hurt an algorithm's performance, and it	
may help significantly.	
may help significantly.  Increasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.	
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Increasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.	
✓ 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	
<ul> <li>✓ Increasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.</li> <li>✓ Correct         Yes. Bringing more data to a model is almost always beneficial.</li> </ul>	
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.	
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✓ Increasing the training set size generally does not hurt an algorithm's performance, and it may help significantly.      ✓ Correct	
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