Your grade: 98%
Your latest: **98%** • Your highest: **98%** • To pass you need at least 80%. We keep your highest score.

[Next item →]

1. Which of the following are some aspects in which AI has transformed business? **1 / 1 point**

   ○ Eliminating the need for health care services.

   ● Web searching and advertisement.

   ○ Creating an AI-powered society.

   ○ AI has not been able to transform businesses.

   > ✓ **Correct**
   > Yes. AI has helped to make a fit between services or results and consumers or queries.

2. Which of the following play a major role to achieve a very high level of performance with Deep Learning algorithms? **0.8 / 1 point**

   ☐ Smaller models.

   ☐ Deep learning has resulted in significant improvements in important applications such as online advertising, speech recognition, and image recognition.

   ☐ Better designed features to use.

   ☑ Large amounts of data.

   > ✓ **Correct**
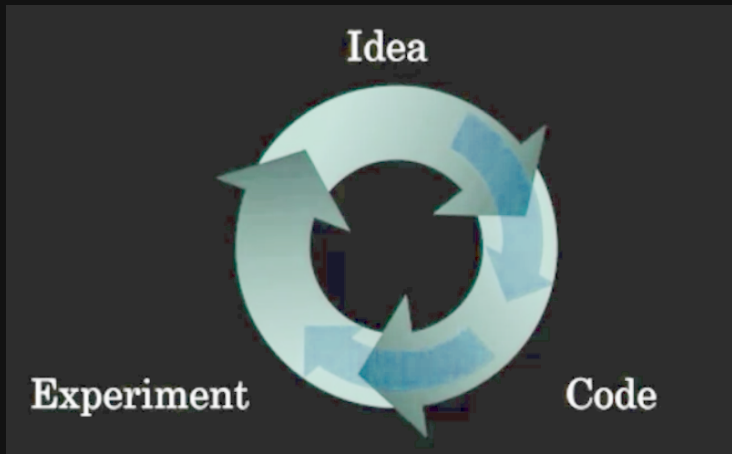   > Yes. Some of the most successful Deep Learning algorithms make use of very large datasets for training.

   ☑ Large models.

   > ✓ **Correct**
   > Yes. In most cases it is necessary for a very large neural network to make use of all the available data.

   > You didn't select all the correct answers

3. Recall this diagram of iterating over different ML ideas. Which of the statements below are true? (Check all that apply.) **1 / 1 point**

   ☑ 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.

   ☐ 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.

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

   > ✓ **Correct**
   > Yes, as discussed in Lecture 4.

4. When experienced deep learning engineers work on a new problem, they can usually use insight from previous problems to train a good model on the first try, without needing to iterate multiple times through different models. True/False? **1 / 1 point**

   ● False

   ○ True

   > ✓ **Correct**
   > Yes. Finding the characteristics of a model is key to having good performance. Although experience can help, it requires multiple iterations to build a good model.

5. Which of the following depicts a Sigmoid activation function? **1 / 1 point**

   ○

   ●

   ○

   ○