

Welcome to the Deep Learning
Specialization

Introduction to Deep Learning
Lecture Notes (Optional)

Quiz

Quiz: Introduction to Deep Learning
10 questions

Heroes of Deep Learning
(Optional)

Introduction to Deep Learning

1. Which of the following is not a reason for Deep Learning recently taking off? (Check the one option that applies.) 1 point

The time allotted has expired, please submit.

- ☐ AI helps to create a more efficient way of producing energy to power industries and personal devices.
- ☐ AI controls the power grids for energy distribution, so all the power needed for industry and in daily life comes from AI.
- ☒ AI is an essential ingredient in realizing tasks, in industry and in personal life.

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Expand

Resume assignment

Your grade

-

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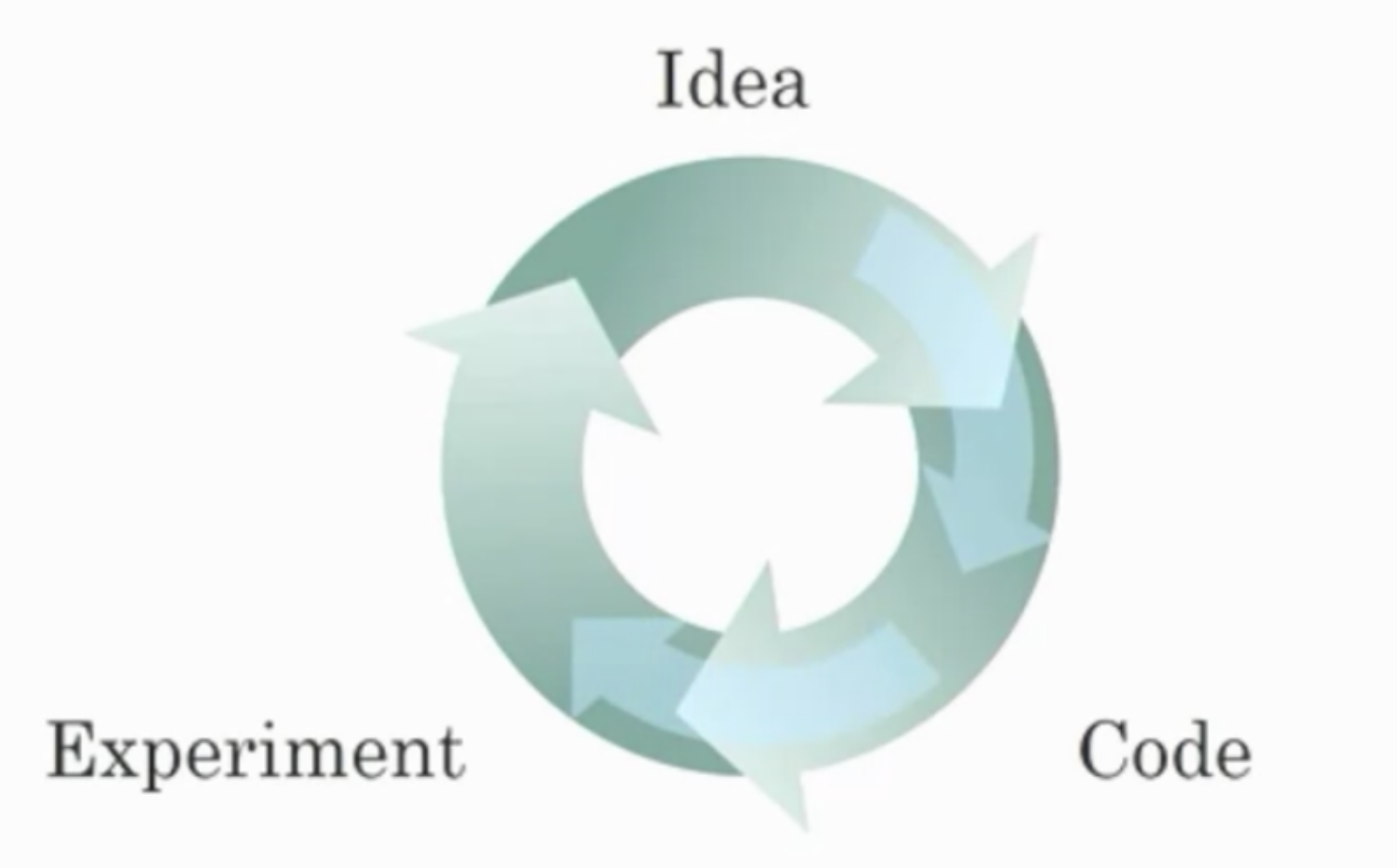
2. Which of these are reasons for Deep Learning recently taking off? (Check the three options that apply.) 1 point

The time allotted has expired, please submit.

- ☒ Deep learning has resulted in significant improvements in important applications such as online advertising, speech recognition, and image recognition.
- ☐ Neural Networks are a brand new field.
- ☒ We have access to a lot more computational power.
- ☒ We have access to a lot more data.

Expand

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



The time allotted has expired, please submit.

- ☐ 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.
- ☒ Being able to try out ideas quickly allows deep learning engineers to iterate more quickly.
- ☒ Recent progress in deep learning algorithms has allowed us to train good models faster (even without changing the CPU/GPU hardware).

Expand

4. Neural networks are good at figuring out functions relating an input x to an output y given enough examples. True/False? 1 point

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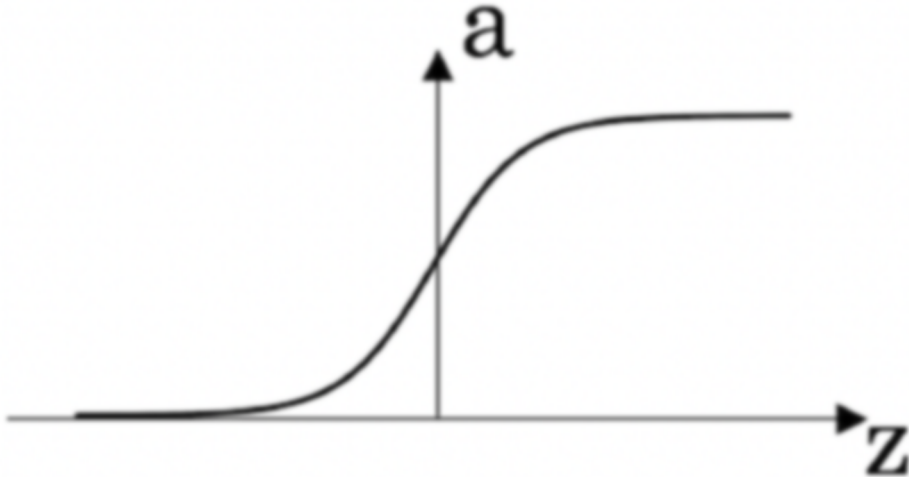
- ☒ False
- ☐ True

Expand

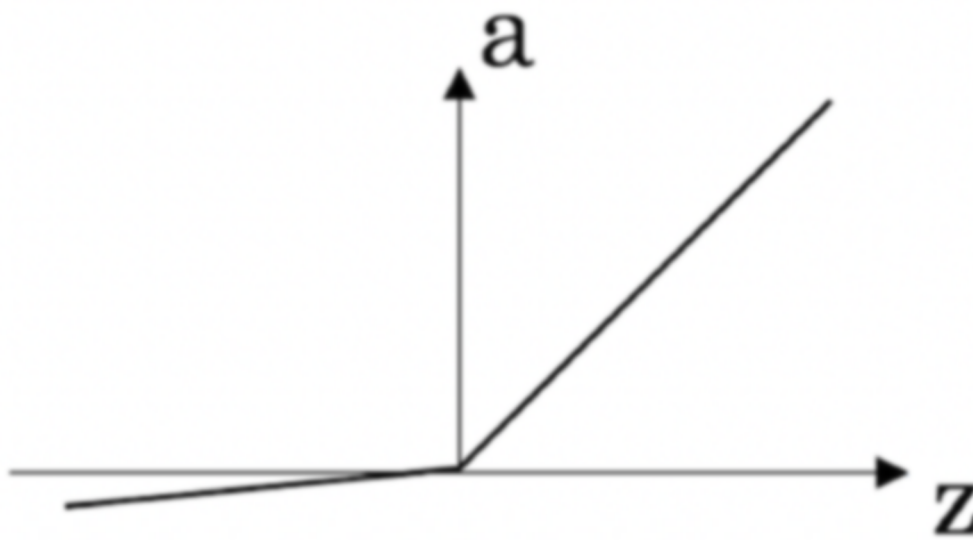
5. Which of the following depicts a Sigmoid activation function? 1 point

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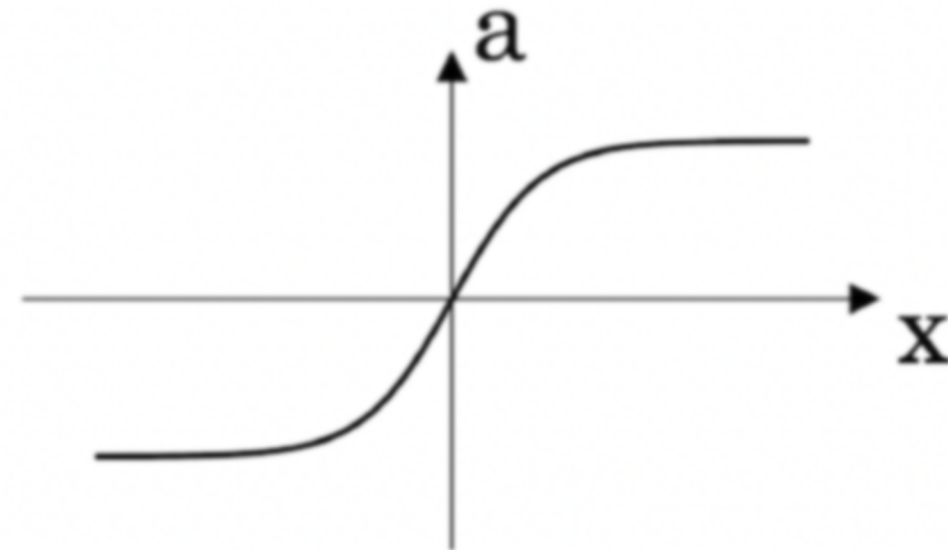
☒ Figure 2:



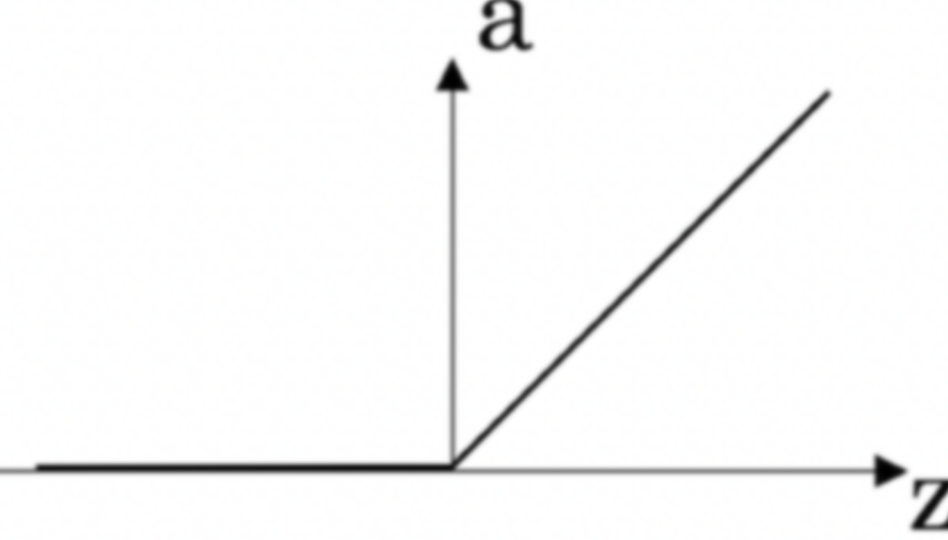
☐ Figure 4:



☐ Figure 1:



☐ Figure 3:



Expand

6. Images for cat recognition is an example of "structured" data, because it is represented as a structured array in a computer. True/False? 1 point

The time allotted has expired, please submit.

- ☐ True
- ☒ False

Expand

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? 1 point

The time allotted has expired, please submit.

- ☒ True
- ☐ False