

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

1 point

- ☒ Web searching and advertisement.
- ☐ Creating an AI-powered society.
- ☐ Eliminating the need for health care services.
- ☐ AI has not been able to transform businesses.

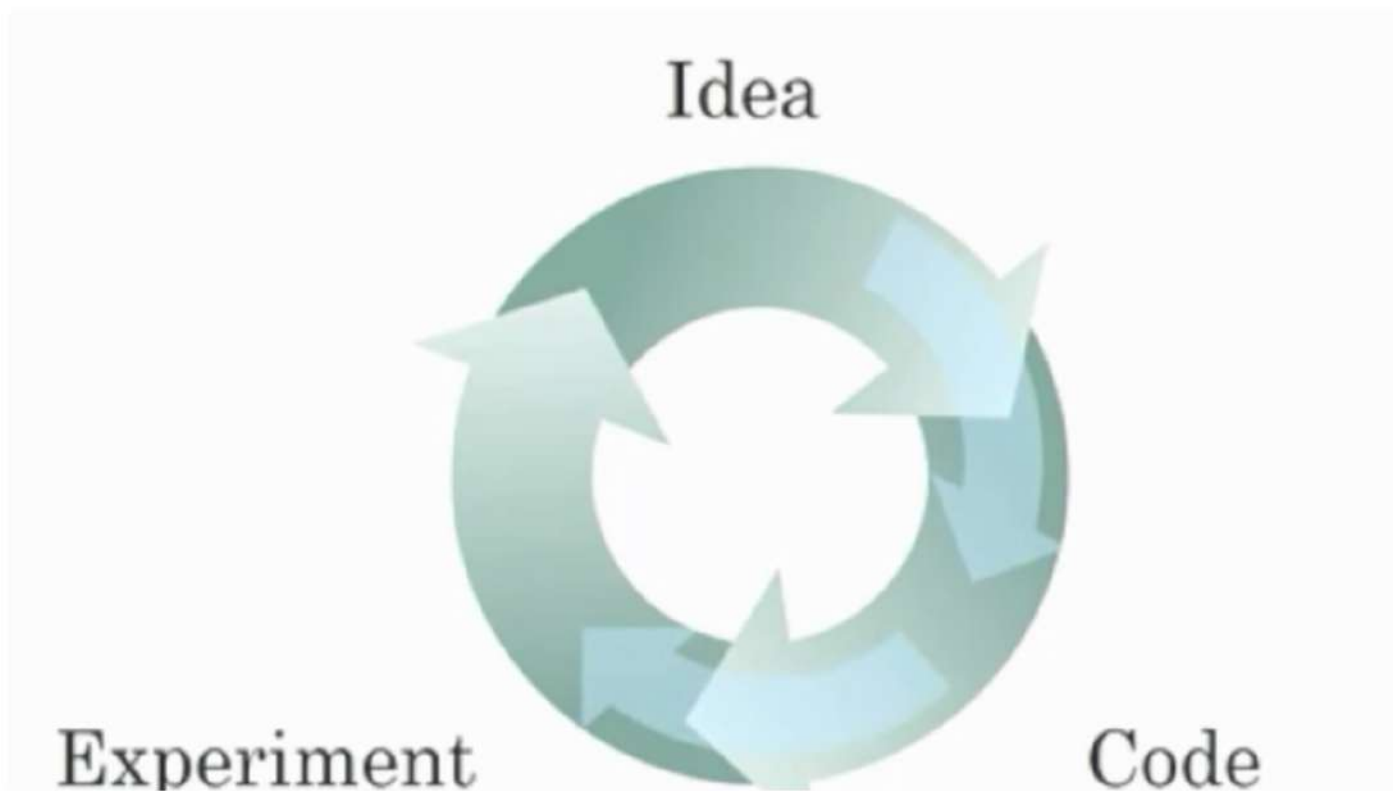
2. Which of the following are reasons that didn't allow Deep Learning to be developed during the '80s?

1 point

- ☒ Interesting applications such as image recognition require large amounts of data that were not available.
- ☐ Limited computational power.
- ☐ People were afraid of a machine rebellion.
- ☐ The theoretical tools didn't exist during the 80's.

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

1 point



- ☐ Improvements in the GPU/CPU hardware enable the discovery of better Deep Learning algorithms.
- ☒ Larger amounts of data allow researchers to try more ideas and then produce better algorithms in less time.
- ☐ Better algorithms allow engineers to get more data and then produce better Deep Learning models.
- ☐ Better algorithms can speed up the iterative process by reducing the necessary computation time.

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 point

- ☐ True
- ☒ False

5. Which one of these plots represents a ReLU activation function?

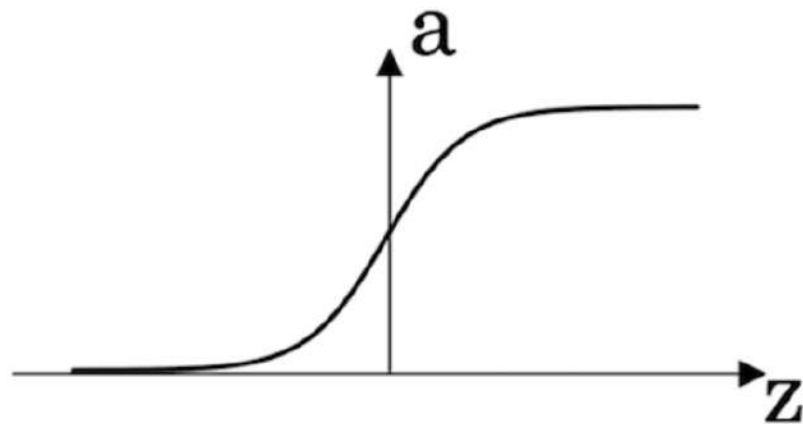
1 point

- ☐ Figure 2:

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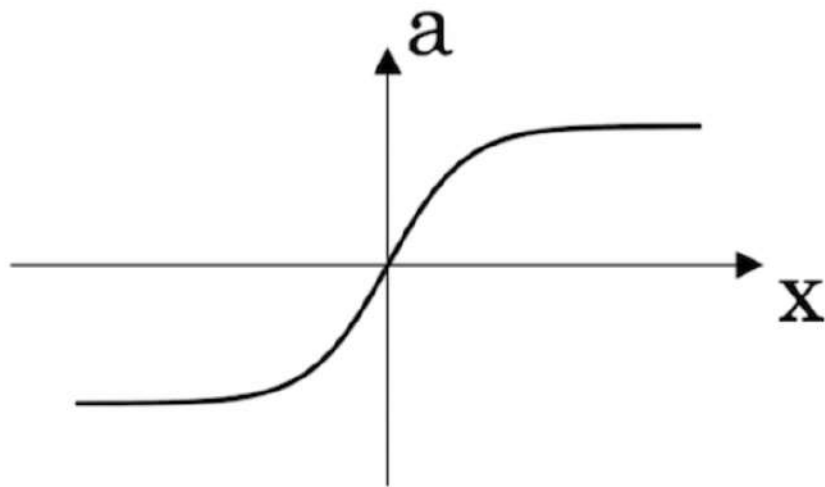
☐ Figure 2:



☐ Figure 1:

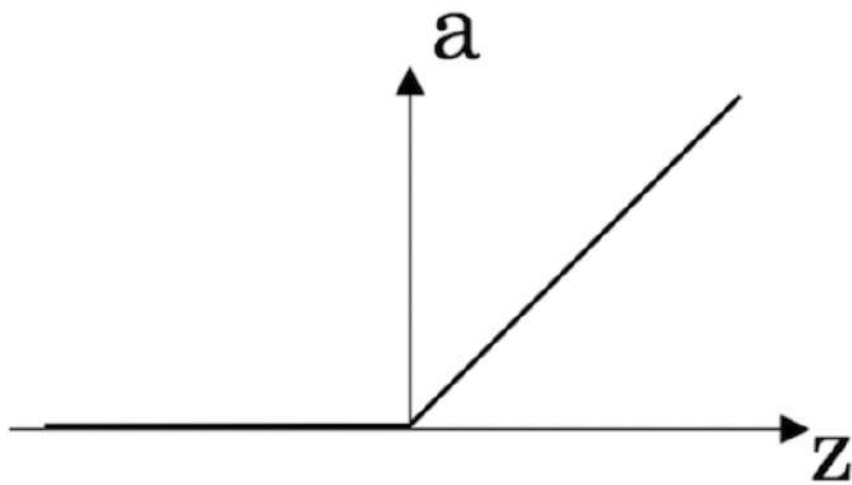
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☐ Figure 1:



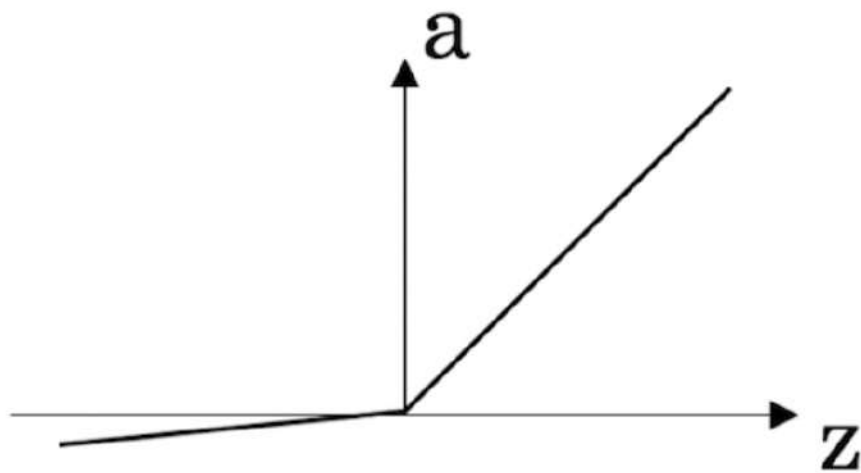
☒ Figure 3:

a

☒ Figure 3:☐ Figure 4:

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1 point

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1 point

☒ False☐ True

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

☐ False☒ True

8. RNNs (Recurrent Neural Networks) are good for data with a temporal component. True/False?

1 point

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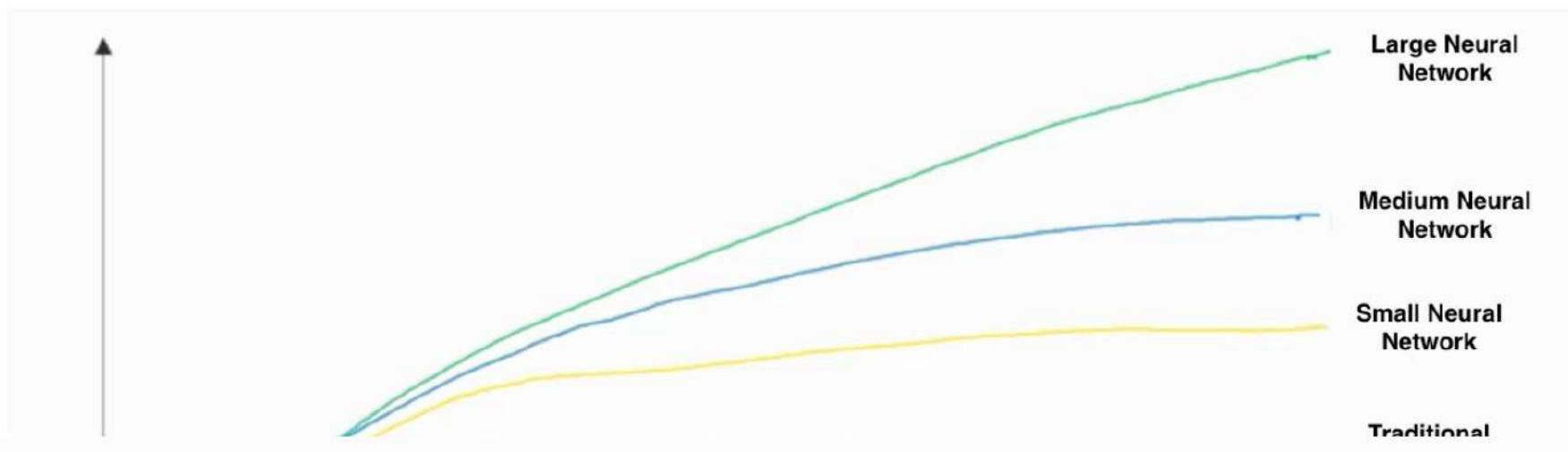
1 point

☐ False

☒ True

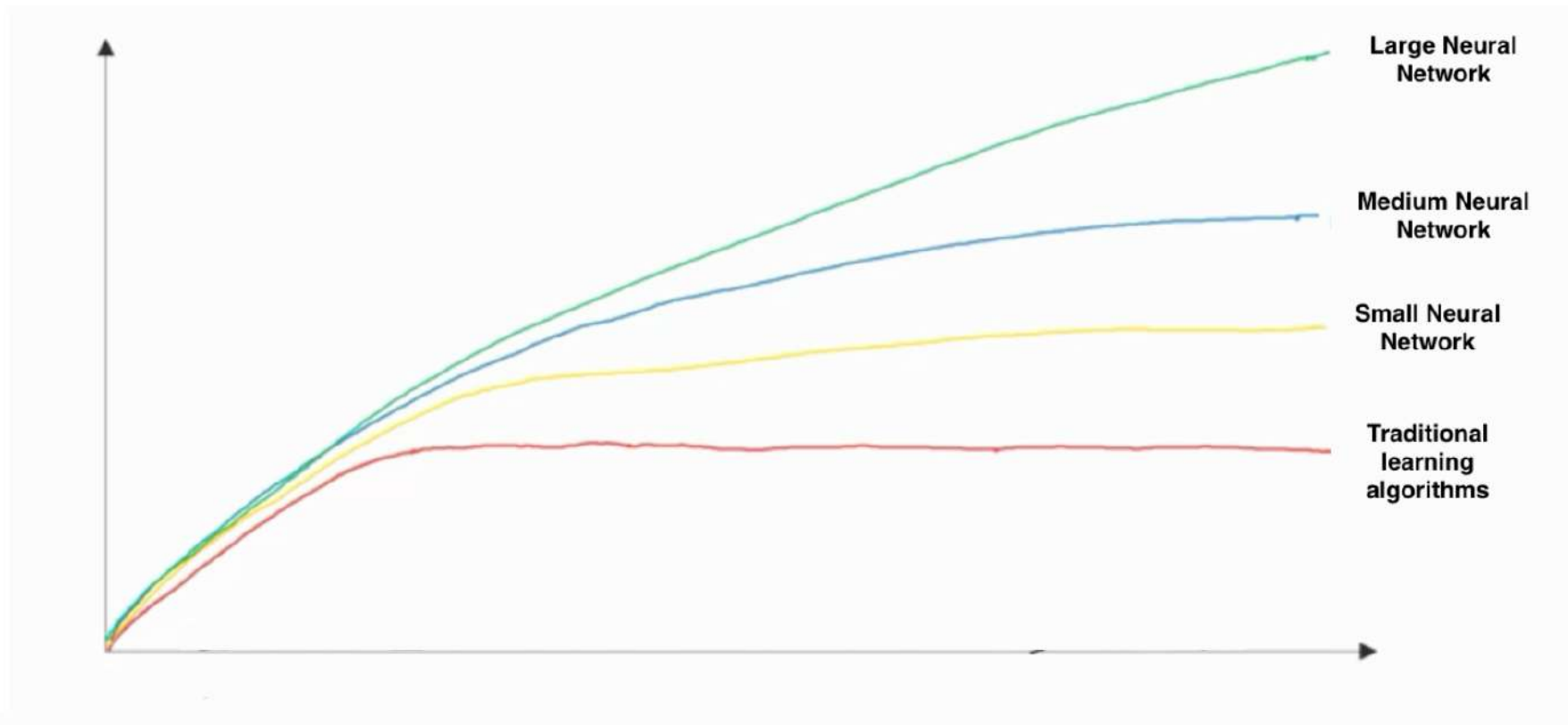
9. In this diagram which we hand-drew in the lecture, what do the horizontal axis (x-axis) and vertical axis (y-axis) represent?

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- ☐
 - x-axis is the performance of the algorithm
 - y-axis (vertical axis) is the amount of data.
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 - x-axis is the amount of data
 - y-axis is the size of the model you train.
- ☐
 - x-axis is the input to the algorithm
 - y-axis is outputs.
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10. Assuming the trends described in the figure are accurate. The performance of a NN depends only on the size of the NN. True/False?

1 point

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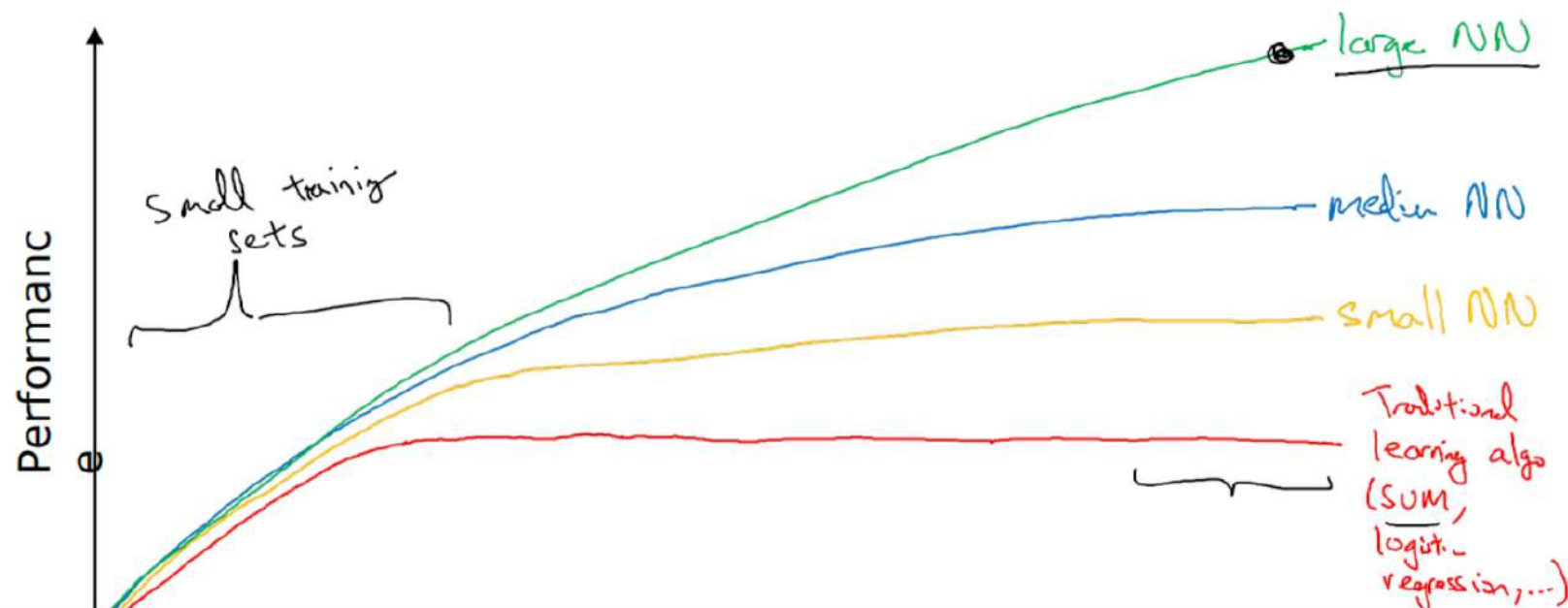
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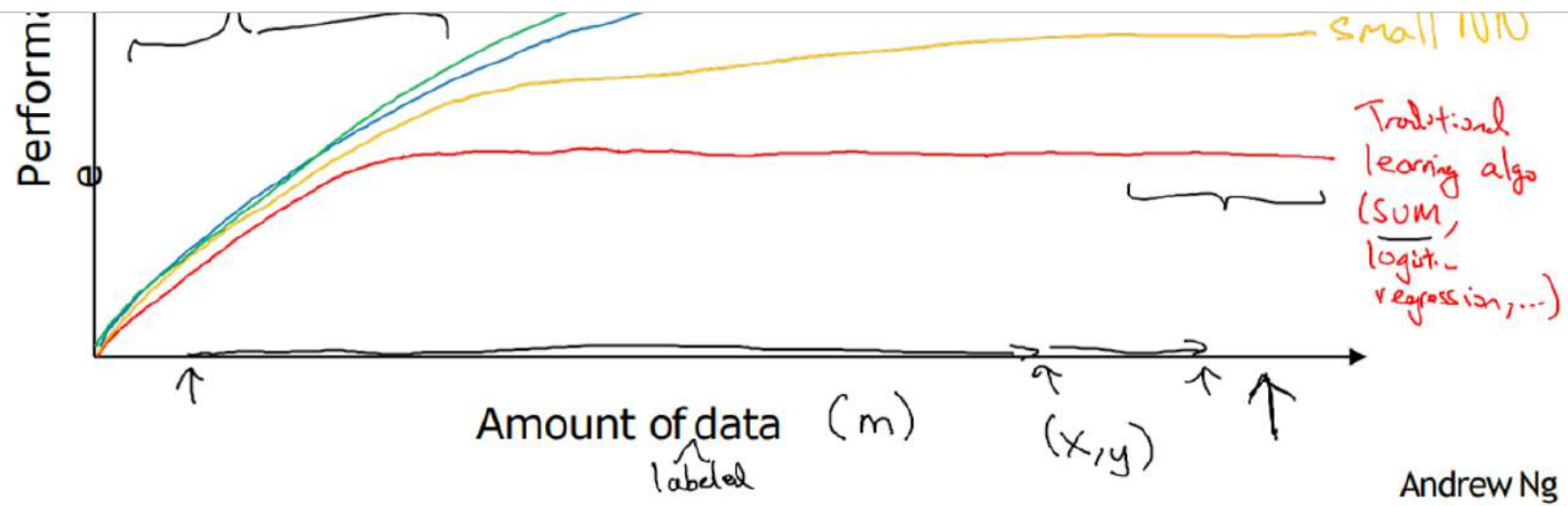
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Scale drives deep learning progress





Andrew Ng

- ☒ False
- ☐ True