



## Week 1 Quiz

Quiz, 10 questions

10/10 points (100%)



**Congratulations! You passed!**

Next Item



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point

1.

Which of these terms best describes the type of AI used in today's email spam filters, speech recognition, and other specific applications?



Artificial Narrow Intelligence (ANI)



**Correct**



Artificial General Intelligence (AGI)



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point

2.

What do you call the commonly used AI technology for learning input (A) to output (B) mappings?



Supervised learning



**Correct**



Artificial General Intelligence



Reinforcement learning

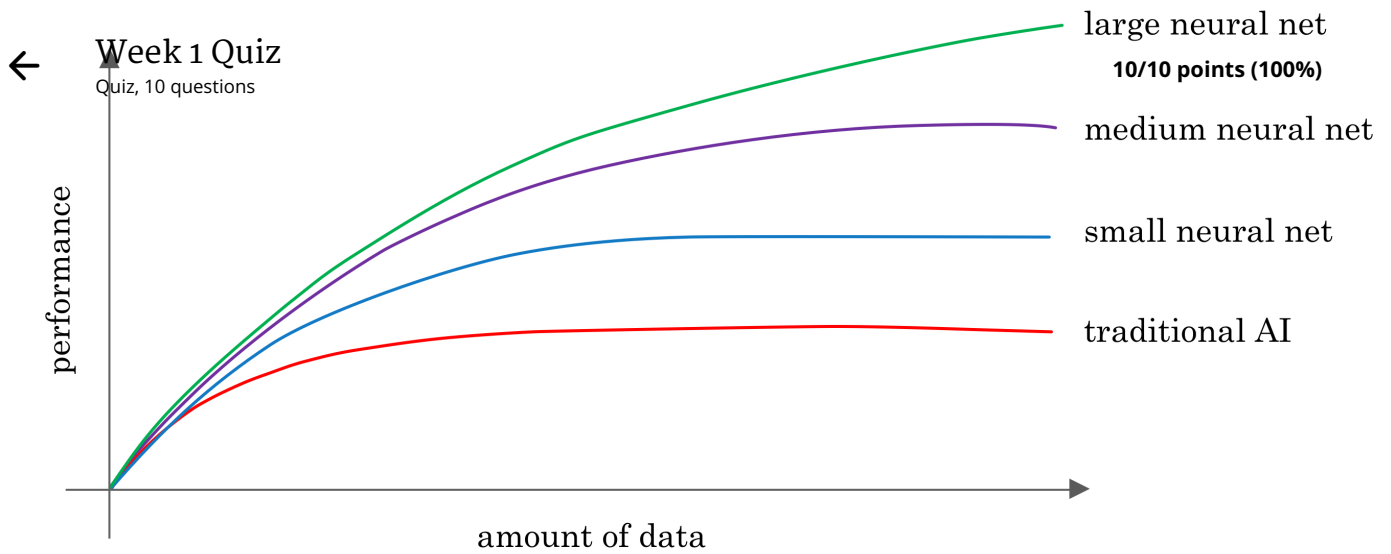


Unsupervised learning



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point

3.



You want to use supervised learning to build a speech recognition system. The figure above suggests that in order for a neural network (deep learning) to achieve the best performance, you would ideally use: (Select all that apply)

☒ A large dataset (of audio files and the corresponding text transcript)

Correct

☐ A small dataset (of audio files and the corresponding text transcript)

Un-selected is correct

☒ A large neural network

Correct

☐ A small neural network

Un-selected is correct



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point

4.

The only way to acquire data for a supervised learning algorithm is to manually label it. I.e., given the input A, to ask a human to provide B.

☐ True

☒ False

Correct



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5. **Week 1 Quiz**

Which of these statements regarding data acquisition do you agree with?  
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- ☐ Only structured data is valuable; AI cannot process unstructured data.
- ☐ It doesn't matter how data is acquired. The more data, the better.
- ☐ It doesn't help to give data to an AI team, because they can always produce whatever they need by themselves.
- ☒ Some types of data are more valuable than others; working with an AI team can help you figure out what data to acquire.

Correct



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point

6. You run a company that manufactures scooters. Which of the following are examples of unstructured data? (Select all that apply.)

- ☐ The number of scooters sold per week over the past year

Un-selected is correct

- ☐ The maximum speed of each of your scooters

Un-selected is correct

- ☒ Audio files of the engine sound of your scooters

Correct

- ☒ Pictures of your scooters

Correct



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point

7. Suppose you run a website that sells cat food. Which of these might be a good result from a Data Science project? (Select all that apply.)

- ☐ A large dataset of images labeled as "Cat" and "Not Cat"

Un-selected is correct

- ☒ Insights into how to market cat food more effectively, depending on the breed of cat.

Correct

☐ A neural network that closely mimics how cats' brains work.



Un-selected is correct



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point

8.

Based on the terminology defined in Video 4, which of the following statements do you agree with? (Select all that apply.)

☐ AI is a type of deep learning. (I.e., all AI algorithms are deep learning algorithms.)



Un-selected is correct

☒ The terms "Deep learning" and "neural network" are used almost interchangeably.



Correct

☐ The terms "Machine learning" and "data science" are used almost interchangeably.



Un-selected is correct

☒ Deep learning is a type of machine learning. (I.e., all deep learning algorithms are machine learning algorithms.)



Correct



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point

9.

Which of these do AI companies do well?

- ☐ Strategic data acquisition
- ☐ Invest in unified data warehouses
- ☐ Spot automation opportunities
- ☒ All of the above



Correct

point  
Week 1 Quiz

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10. Quiz, 10 questions

Say you want to input a picture of a person's face (A), and output whether or not they are smiling (B). Because this is a task that most humans can do in less than 1 second, supervised learning can probably learn this A-to-B mapping.

☒ True



Correct

☐ False

