1. 1 point

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

○ Artificial General Intelligence (AGI)

✓ Artificial Narrow Intelligence (ANI)

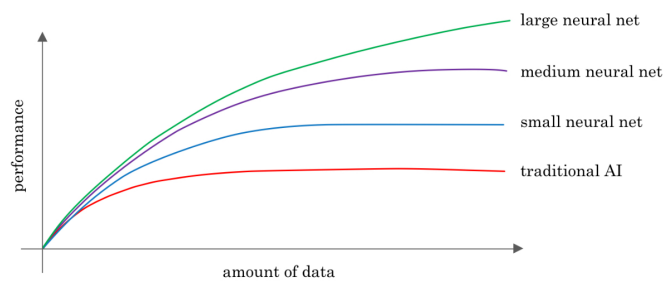**2.** 1 point

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

○ Artificial General Intelligence

○ Reinforcement learning

✓ Supervised learning

○ Unsupervised learning

3. 1 point

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)

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

✓ A large neural network

☐ A small neural network

4. 1 point

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

5. 1 point

Which of these statements regarding data acquisition do you agree with?

○ 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.

○ It doesn't matter how data is acquired. The more data, the better.

○ Only structured data is valuable; AI cannot process unstructured data.

6. 1 point

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

☐ The maximum speed of each of your scooters

☑ Audio files of the engine sound of your scooters

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

☑ Pictures of your scooters

---

1 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 neural network that closely mimics how cats' brains work.

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

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

☑ A slide deck presenting a plan on how to modify pricing in order to improve sales.

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1 point

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

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

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

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

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

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1 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

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1 point

10. 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

○ False

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