Week 1 Quiz

Quiz, 10 questions

1 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 General Intelligence (AGI)
- Artificial Narrow Intelligence (ANI)

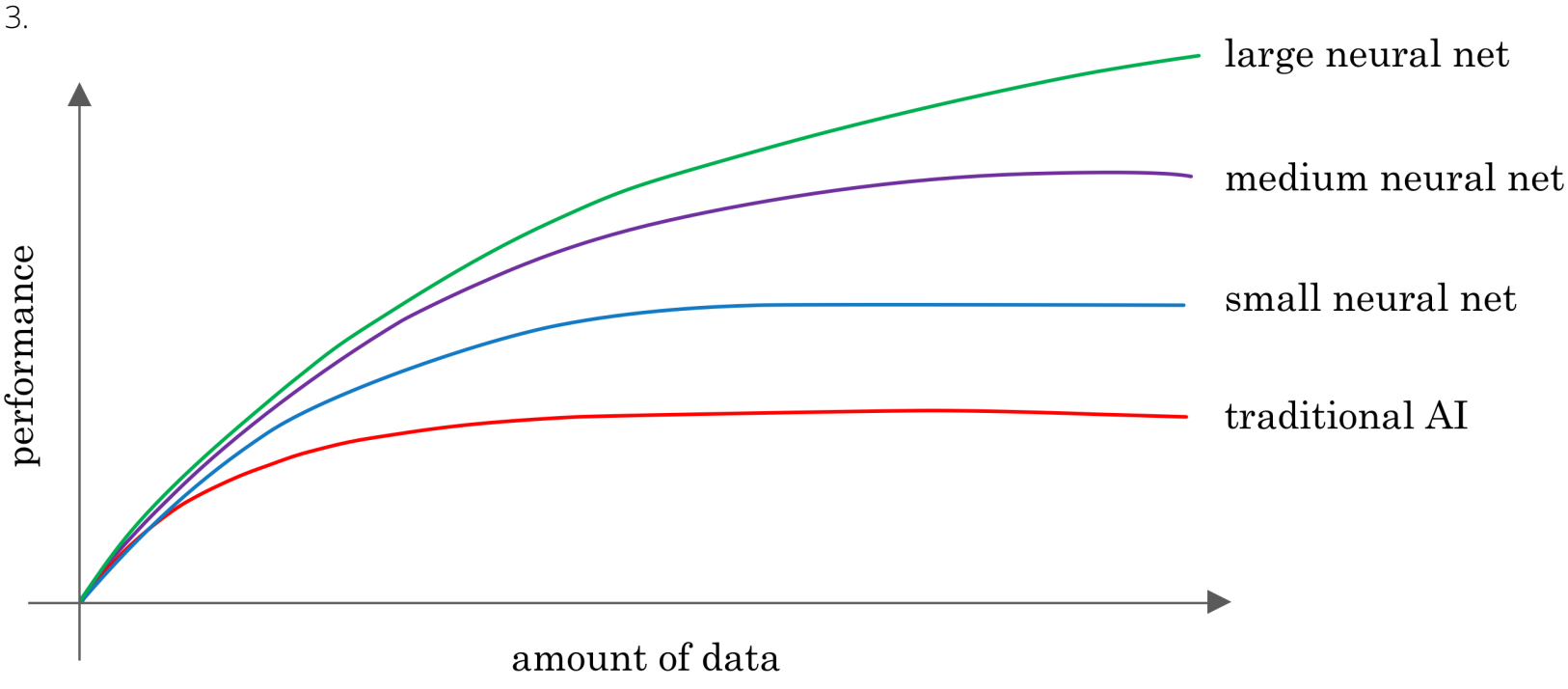
1 point

2.
What do you call the commonly used AI technology for learning input (A) to output (B) mappings?

- Unsupervised learning
- Reinforcement learning
- Artificial General Intelligence
- Supervised learning

1 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)

- [x] A large dataset (of audio files and the corresponding text transcript)
- [ ] A small dataset (of audio files and the corresponding text transcript)
- [x] A large neural network
- [ ] A small neural network

1

point

Week 1 Quiz

4 Quiz, 10 questions

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

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1 point

5.

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

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

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1 point

6.

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

- ☐ Audio files of the engine sound of your scooters
- ☐ The maximum speed of each of your scooters
- ☐ Pictures of your scooters
- ☐ The number of scooters sold per week over the past year

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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.)

- ☐ Insights into how to market cat food more effectively, depending on the breed of cat.
- ☐ A large dataset of images labeled as "Cat" and "Not Cat"
- ☐ A neural network that closely mimics how cats' brains work.
- ☐ 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 "Deep learning" and "neural network" are used almost interchangeably.

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

The terms “Machine learning” and “data science” are used almost interchangeably.

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9.

Which of these do AI companies do well?

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

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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