Week 1 Quiz
Quiz, 10 questions

10/10 points (100%)

✓ **Congratulations! You passed!**

Next Item

✓ 1 / 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 Narrow Intelligence (ANI)

▲

Correct

○ Artificial General Intelligence (AGI)

✓ 1 / 1
point

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

○ Artificial General Intelligence

○ Supervised learning
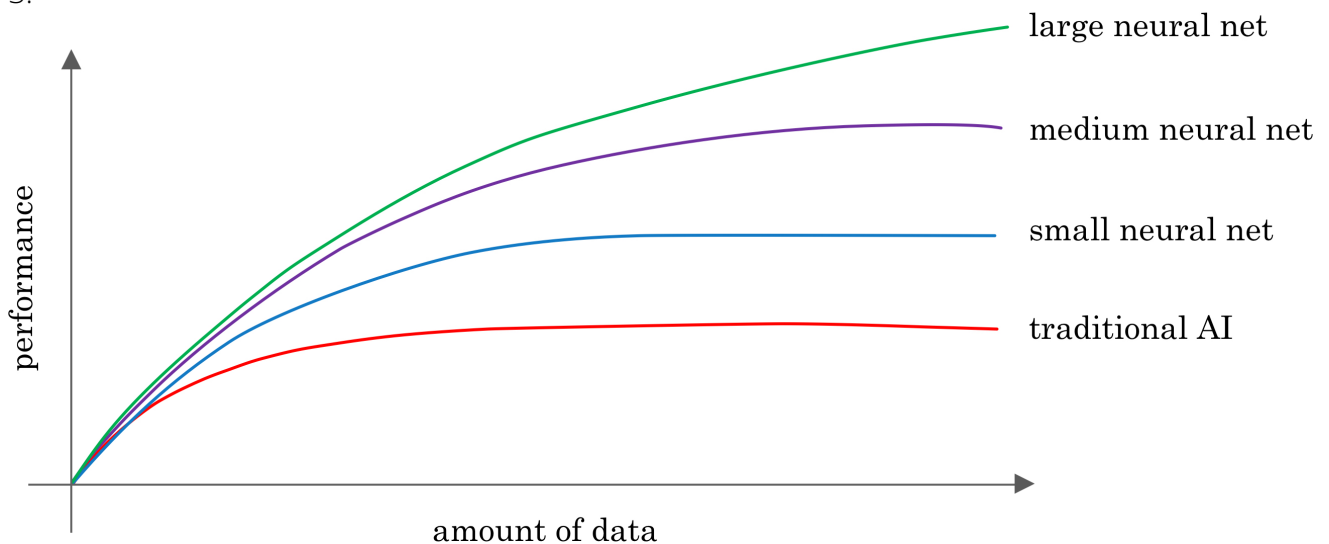
▲

Correct

○ Unsupervised learning

○ Reinforcement learning

✓ 1 / 1
point

3.

amount of data

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

✔ 1 / 1 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

✔ 1 / 1
point

5.

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.

◯ 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.

▲

Correct

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

✔ 1 / 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

▲

Correct

☐ The maximum speed of each of your scooters

▲

Un-selected is correct

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

▲

Un-selected is correct

☐ Pictures of your scooters

Correct

✓   1 / 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 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

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

Correct

✓   1 / 1
         point

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

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

Un-selected is correct

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

Correct

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

▲

Un-selected is correct

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

▲

Correct

✔ 1 / 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

▲

Correct

✔ 1 / 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

▲

Correct

○ False