

Week 1 Quiz

Quiz, 10 questions

10/10 points (100.00%)



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



Reinforcement learning



Supervised learning



Correct



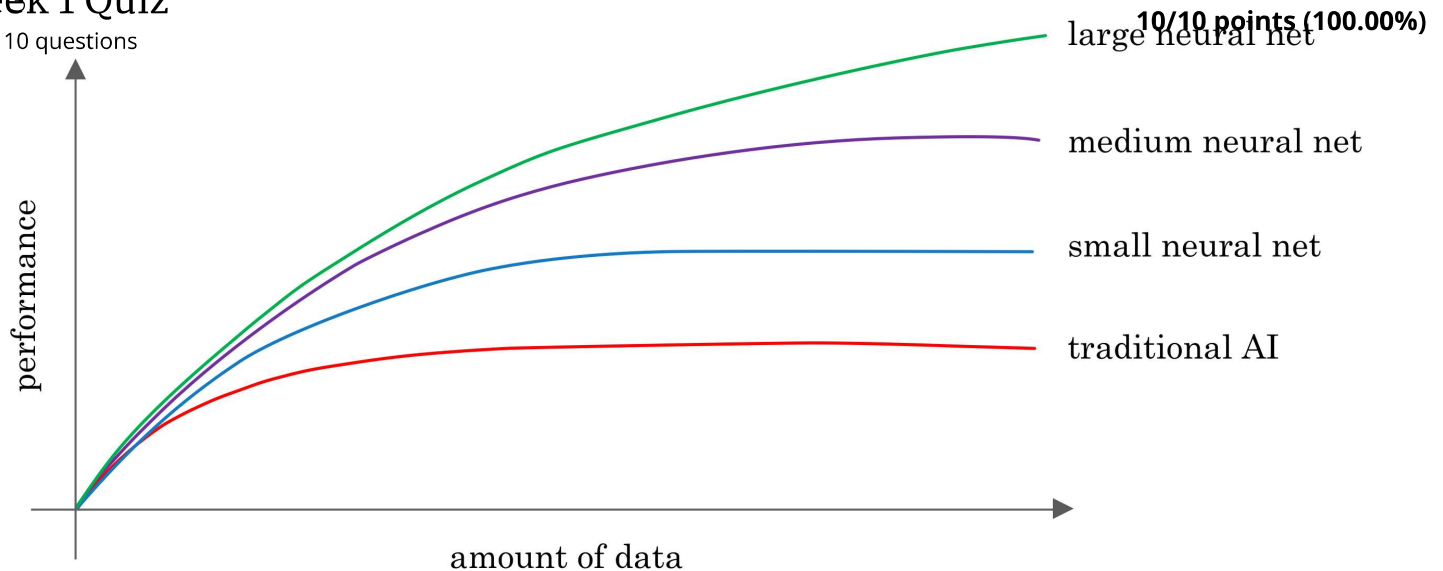
Unsupervised learning



1 / 1
point

Week 1 Quiz

Quiz, 10 questions



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, ask a human to provide B.

Week 1 Quiz

Quiz, 10 questions

10/10 points (100.00%)

☐ 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.)

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

Un-selected is correct

☐ Audio files of the engine sound of your scooters

Correct

Week 1 Quiz

Quiz, 10 questions The maximum speed of each of your scooters

10/10 points (100.00%)

☐ 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 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

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

☐ Correct

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

☐ Un-selected is correct



1 / 1
point

8.

Week 1 Quiz

Quiz, 10 questions

10/10 points (100.00%)

☐ 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

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

Un-selected is correct1 / 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

Correct1 / 1
point

Week 1 Quiz

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.

10/10 points (100.00%)

☒ True



Correct

☐ False

