

Week 1 Quiz

Latest Submission Grade

80%

1.

Question 1

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

1 / 1 point



Artificial General Intelligence (AGI)



Artificial Narrow Intelligence (ANI)

Correct

2.

Question 2

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

1 / 1 point



Artificial General Intelligence



Supervised learning



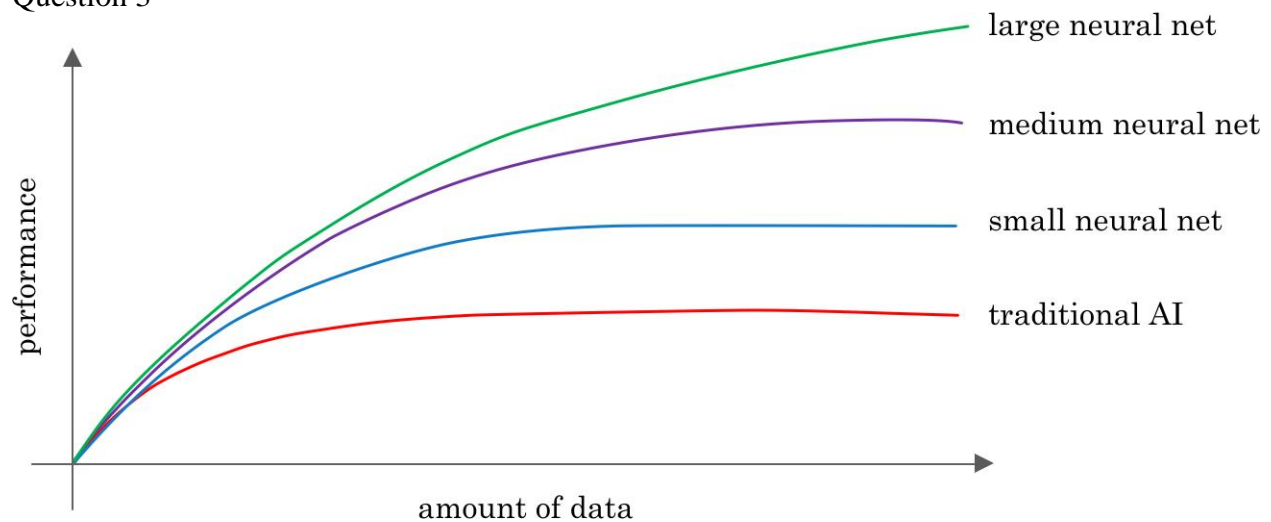
Reinforcement learning



Unsupervised learning

Correct

3.
Question 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)

1 / 1 point



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

Correct



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



A large neural network

Correct



A small neural network

4.
Question 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.

1 / 1 point



True



False

Correct

5.

Question 5

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

1 / 1 point



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

6.

Question 6

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

0.75 / 1 point



Pictures of your scooters

Correct



Audio files of the engine sound of your scooters



The number of scooters sold per week over the past year



The maximum speed of each of your scooters

You didn't select all the correct answers

7.

Question 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.)

0.75 / 1 point



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.

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"

This should not be selected

8.

Question 8

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

0.5 / 1 point



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

This should not be selected



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



The terms “Deep learning” and “neural network” are used almost interchangeably.



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

Correct

9.

Question 9

Which of these do AI companies do well?

1 / 1 point



Strategic data acquisition



Invest in unified data warehouses



Spot automation opportunities



All of the above

Correct

10.

Question 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.

0 / 1 point



True



False

Incorrect