

Week 1 Quiz

Quiz, 10 questions

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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)
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2.

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

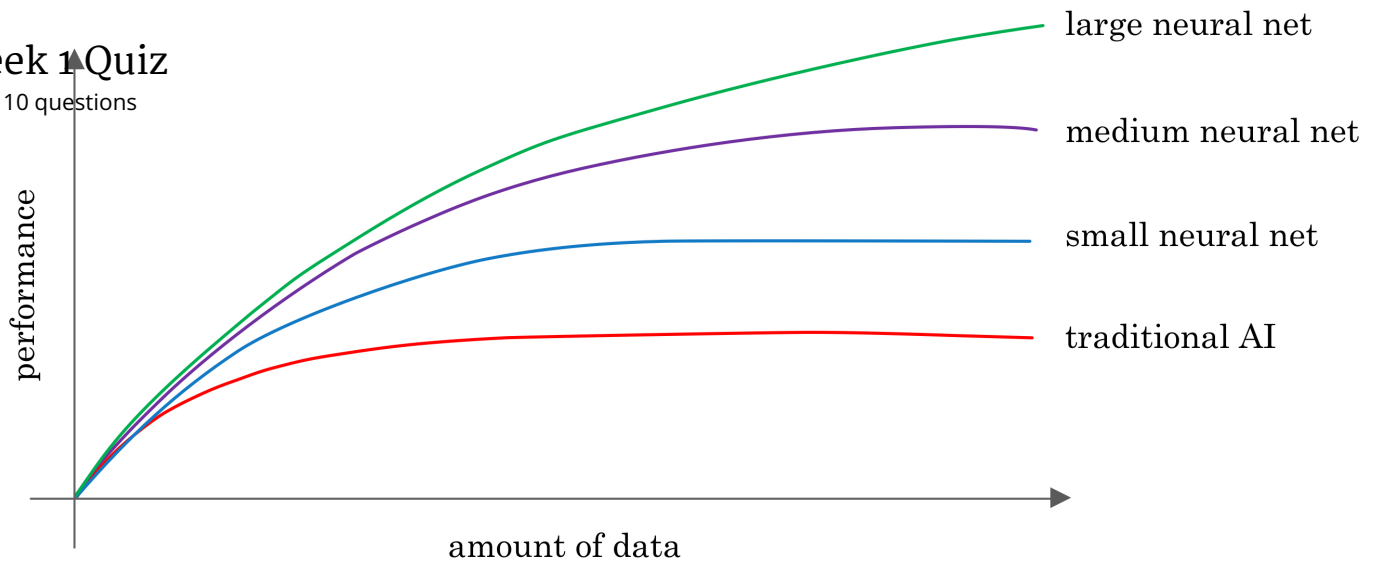
- ☐ Supervised learning
 - ☐ Reinforcement learning
 - ☐ Unsupervised learning
 - ☐ Artificial General Intelligence
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1
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3.

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

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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

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.

Week 1 Quiz

Quiz, 10 questions

- ☐ It doesn't help to give data to an AI team, because they can always produce whatever they need by themselves.
- ☐ Only structured data is valuable; AI cannot process unstructured data.
- ☐ Some types of data are more valuable than others; working with an AI team can help you figure out what data to acquire.
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1
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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 number of scooters sold per week over the past year
- ☐ The maximum speed of each of your scooters
- ☐ Pictures of your scooters
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1
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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"
- ☐ Insights into how to market cat food more effectively, depending on the breed of 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
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8.

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

Week 1 Quiz

Quiz, 10 questions

- ☐ The terms “Machine learning” and “data science” are used almost interchangeably.
 - ☐ Deep learning is a type of machine learning. (I.e., all deep learning algorithms are machine learning algorithms.)
 - ☐ 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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9.

What 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
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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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Quiz, 10 questions