



Week 1 Quiz

Correct

Question 1/10

1 point

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)



Week 1 Quiz

Correct

Question 2/10

1 point

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

Reinforcement learning

Supervised learning

Correct

Unsupervised learning

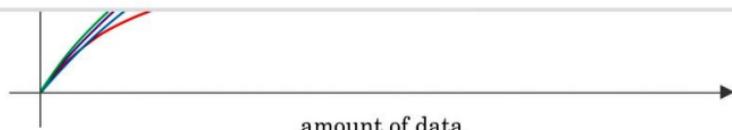
Artificial General Intelligence

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Week 1 Quiz



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)



A large neural network



Correct



A small neural network



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Week 1 Quiz

Correct

Question 4/10

1 point

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



Week 1 Quiz



Correct

Question 5/10

1 point

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



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



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



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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Week 1 Quiz



Correct

Question 6/10

1 point

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



Pictures of your scooters



Correct



Audio files of the engine sound of your scooters



Correct



The maximum speed of each of your scooters



The number of scooters sold per week over the past year



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Week 1 Quiz

Correct

Question 7/10

1 point

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.



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



Correct

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.



Correct



Week 1 Quiz

Correct

Question 8/10

1 point

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



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



Correct



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.)



Correct



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



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Week 1 Quiz

Correct

Question 9/10

1 point

Which of these do AI companies do well?

Strategic data acquisition

Invest in unified data warehouses

Spot automation opportunities

All of the above

Correct



Week 1 Quiz

Correct

Question 10/10

1 point

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



Week 2 Quiz

Correct

Question 1/10

1 point

Machine learning is an “iterative” process, meaning that an AI team often has to try many ideas before coming up with something that’s good enough, rather than have the first thing they try work.

True

Correct

False



Week 2 Quiz

sorting. I.e., Input A (a sales prospect) and output B (whether your sales team should prioritize them). The 3 steps of the workflow, in scrambled order, are:

- (i) Deploy a trained model and get data back from users
- (ii) Collect data with both A and B
- (iii) Train a machine learning system to input A and output B

What is the correct ordering of these steps?



(ii) (iii) (i)



Correct



(i) (ii) (iii)



(ii) (i) (iii)



(i) (iii) (ii)



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Week 2 Quiz



Correct

Question 3/10

1 point

What are the key steps of a Data Science project?



Collect data



Analyze the data



Suggest hypothesis or actions



All of the above



Correct



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Week 2 Quiz

Question 4/10

1 point

Machine Learning programs can help: (select all that apply)



Automate resume screening



Correct



Automate lead sorting in sales



Correct



Customize product recommendations



Correct



Automate visual inspection in a manufacturing line



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Week 2 Quiz

Correct

Question 5/10

1 point

Unless you have a huge dataset (“Big Data”), it is generally not worth attempting machine learning or data science projects on your problem.

True

False

Correct



Week 2 Quiz

Question 6/10

1 point

Say you want to build an AI system to help recruiters with automated resume screening. Which of these steps might be involved in “technical diligence” process? (Select all that apply.)



Ensuring that this is valuable for your business (e.g., estimating the project ROI)



Defining an engineering timeline



Correct



Making sure you can get enough data for this project



Correct



Making sure that an AI system can meet the desired performance



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Week 2 Quiz



Correct

Question 7/10

1 point

Which of these statements about “business diligence” do you agree with?



Business diligence is the process of ensuring that the envisioned AI technology is feasible.



Business diligence is the process of ensuring that the AI technology, if it is built, is valuable for your business.



Correct



Business diligence applies only if you are launching new product lines or businesses.



Business diligence can typically be completed in less than a day.



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Week 2 Quiz

Question 8/10

1 point

You want to use supervised learning for automated resume screening, as in the example above. Which of the following statements about the Training Set are true? (Select all that apply.)



It will be used by the AI team to train the supervised learning algorithm.



Correct



It should give examples of both the input A (resume) and the desired output B (whether to move forward with a candidate).



Correct



The Training set and Test set can be the same dataset.



It should give examples of the input A (resume) but not necessarily the desired output B (whether to move forward with a



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Week 2 Quiz

Question 9/10

1 point

For your automated resume screening application, you are now providing a Test Set to the AI team. Which of the following statements about the Test Set are true? (Select all that apply.)

It should give examples of both the input A (resume) and the desired output B (whether to move forward with a candidate)



The Test Set should ideally be identical to the Training Set.



Incorrect



It will be used by the AI team to evaluate the performance of the algorithm.



Incorrect

It should give examples of the input A (resume) but not necessarily the desired output B (whether to move forward with a candidate)



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Week 2 Quiz

Correct

Question 10/10

1 point

Which of these are reasons that it's often unrealistic to expect an ML system to be 100% accurate?

You might not have enough data

Data can be mislabeled

Data can be ambiguous

All of the above.

Correct

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Done



Week 3 Quiz



Correct

Question 1/10

1 point

Because smart speakers can carry out multiple functions (such as tell a joke, play music, etc.) it is an example of Artificial General Intelligence (AGI).



True



False



Correct

Next →



Week 3 Quiz

Correct

Question 2/10

1 point

What are the key steps to a smart speaker function?

- Trigger word detection -> intent recognition -> speech recognition -> command execution.
- Speech recognition → Trigger word detection -> intent recognition -> command execution.
- Trigger detection -> intent recognition -> speech recognition -> command execution.
- Trigger word detection -> speech recognition -> intent recognition -> command execution.

Correct

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Week 3 Quiz

Correct

Question 3/10

1 point

Consider this system for building a self-driving car:



The component for pedestrian detection is usually built using:

GANs

Supervised learning

Correct

Reinforcement learning

A motion planning algorithm



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Week 3 Quiz



Correct

Question 4/10

1 point

Suppose you are building a trigger word detection system, and want to hire someone to build a system to map from Inputs A (audio clip) to Outputs B (whether the trigger word was said), using existing AI technology. Out of the list below, which of the following hires would be most suitable for writing this software?



Machine learning researcher



Machine learning engineer



Correct



AI Product Manager



Data engineer



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Week 3 Quiz

Correct

Question 5/10

1 point

What is the first step in the AI Transformation Playbook for helping your company become good at AI?

Build an in-house AI team

Develop an AI strategy

Provide broad AI training

Execute pilot projects to gain momentum

Correct

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Week 3 Quiz



Correct

Question 6/10

1 point

Of the following options, which is the most important trait of your first pilot project?



Succeed and show traction within 6-12 months



Correct



Drive extremely high value for the business



Be executed by an in-house team



None of the above



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Week 3 Quiz

Correct

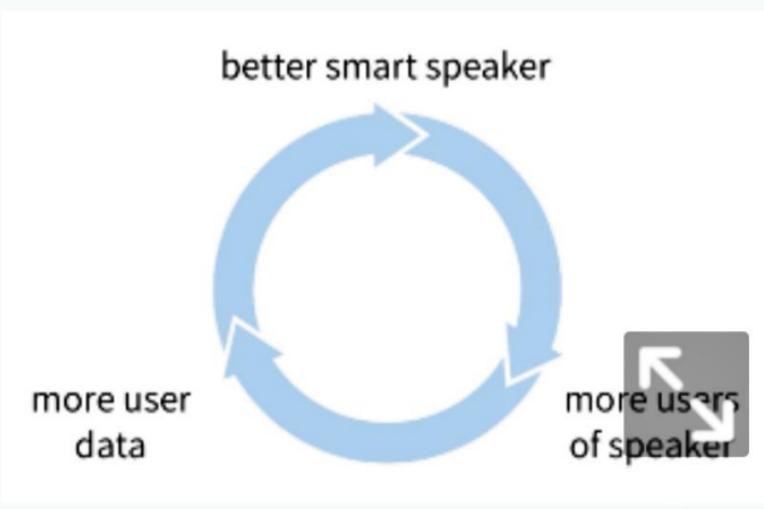
Question 7/10

1 point

Say you are building a smart speaker, and want to accumulate data for your product through having many users. Which of these represents the “Virtuous circle of AI” for this product?



(A)



Correct



(B)



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Week 3 Quiz



Correct

Question 8/10

1 point

Why is developing an AI strategy NOT the first step in the AI Transformation Playbook?



The strategy should be to use the Virtuous Circle of AI, which comes after building a product.



Without having some practical AI experience and knowing what it feels like to build an AI project, a company usually does not know enough to formulate a sound strategy.



Correct



When transforming a company into an AI company, one does not need a strategy, therefore it can't be the first step.



There is no reason. Developing an AI strategy IS the first step in the AI Transformation



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Week 3 Quiz

Correct

Question 9/10

1 point

According to the AI Transformation Playbook, broad AI training needs to be provided not only to engineers, but also to executives/senior business leaders and to leaders of divisions working on AI projects.



True



Correct



False



Week 3 Quiz

Correct

Question 10/10

1 point

Which of the following are AI pitfalls to avoid?
(Select all that apply)



Expecting AI to solve everything



Correct



Expecting traditional planning processes to apply without changes



Correct



Expecting AI based projects to work the first time



Correct



Pairing engineering talent with business talent



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Done



Week 4 Quiz



Correct

Question 1/10

1 point

What are the current limitations of AI technology? (Select all that apply)



There are no limitations to AI technology



AI technology can discriminate



Correct



Explainability is hard



Correct



AI technology can be biased



Correct

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Week 4 Quiz

Correct

Question 2/10

1 point

What is the Goldilocks Rule of AI?

- AI's technology will continue to grow and can only benefit society
- One should allocate many resources to defend the world from giant killer robots
- An AI winter is coming
- One shouldn't be too optimistic or too pessimistic about AI technology

Correct

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Week 4 Quiz

 **Correct**

Question 3/10

1 point

Say you are building an AI system to help make diagnoses from X-ray scans. Which of the following statements about explainability of AI do you agree with?

- AI systems are intrinsically “black box” and cannot give any explanation for their outputs.
- Explainability is usually achieved through building a chatbot to talk to the user to explain its outputs.
- Lack of explainability can hamper users’ willingness to trust and adopt an AI system.

 **Correct**

- Most AI systems are highly explainable, meaning that it’s easy for a doctor to figure out why an AI system gave a particular

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Week 4 Quiz

Correct

Question 4/10

1 point

Using current AI technology, if a machine learning system learns from text that reflects unhealthy biases/stereotypes, then the resulting AI software may also exhibit similarly unhealthy biases/stereotypes.



True



Correct



False



Week 4 Quiz

Correct

Question 5/10

1 point

Using current AI technology, if a machine learning system learns only from text that is completely neutral and does not reflect any gender biases, then we would expect it to exhibit no, or at most minimal, gender bias.

True

Correct

False

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Week 4 Quiz

 **Correct**

Question 6/10

1 point

Which of these are good practices for addressing bias in AI? (Select all that apply)



Technical solution such as “zeroing out” bias



Correct



Systematic auditing processes to check for bias



Correct



Using an adversarial attack on the AI system to change its outputs to be less biased



Using more inclusive/less biased data



Comment



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Week 4 Quiz

Correct

Question 7/10

1 point

Which of these are examples of adversarial attacks on an AI system? (Select all that apply)



Subtly changing an image to make an AI system mistakenly recognize a dog as a cat.



Correct



Subtly modifying an audio clip to make a speech recognition system think someone said "Yes, authorized" when they actually said "No, reject."



Correct



Adding a sticker to a stop sign to make an AI system fail to detect it.



Correct



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Week 4 Quiz

Correct

Question 8/10

1 point

If a developing economy has a strong and thriving coffee bean manufacturing industry (or some other vertical industry), then it has an advantage in applying AI to coffee bean manufacturing (or other vertical industry).



True



Correct



False



Week 4 Quiz



Correct

Question 9/10

1 point

What are the jobs that AI is most likely to displace over the next several years?



Jobs that comprise primarily of routine, repetitive work



Correct



Most jobs involving office work (white collar jobs)



All jobs will be displaced



Jobs that comprise primarily of non-routine, non-repetitive work



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Week 4 Quiz

Correct

Question 10/10

1 point

Congratulations! You deserve a pat on the back for finishing this course.

True

Correct

False