

Week 1 Quiz

01 May 2020 19:07

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Graded Quiz • 30 min

Due May 11, 11:59 AM +05

Week 1 Quiz

TOTAL POINTS 10

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 point

- ☒ Artificial Narrow Intelligence (ANI)
- ☐ Artificial General Intelligence (AGI)

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

1 point

- ☐ Reinforcement learning
- ☐ Artificial General Intelligence
- ☐ Unsupervised learning
- ☒ Supervised learning

3.

large neural net

1 point

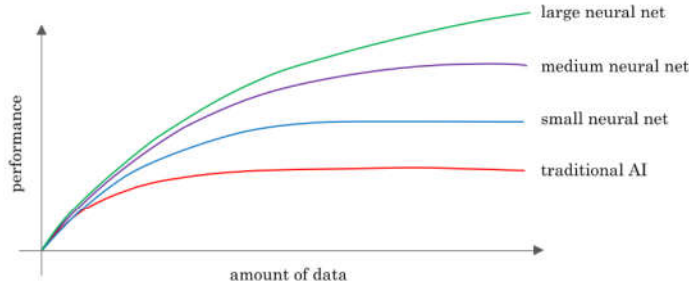


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3.



1 point

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. 1 point

☐ True

☒ False

5. Which of these statements regarding data acquisition do you agree with? 1 point

☒ Some types of data are more valuable than others; working with an AI team can help you figure out what data to acquire.

☐ It doesn't matter how data is acquired. The more data, the better.

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

☐ It doesn't help to give data to an AI team, because they can always produce whatever they need by themselves.

6. You run a company that manufactures scooters. Which of the following are examples of unstructured data? (Select all that apply.) 1 point

☐ The maximum speed of each of your scooters

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

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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.) 1 point

☐ The maximum speed of each of your scooters

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

☒ Pictures of your scooters

☒ Audio files of the engine sound of your scooters

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.) 1 point

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

☒ 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 large dataset of images labeled as "Cat" and "Not Cat"

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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.) 1 point

- ☐ The terms "Machine learning" and "data science" are used almost interchangeably.
- ☐ AI is a type of deep learning. (I.e., all AI algorithms are deep learning algorithms.)
- ☒ Deep learning is a type of machine learning. (I.e., all deep learning algorithms are machine learning algorithms.)
- ☒ The terms "Deep learning" and "neural network" are used almost interchangeably.

9. Which of these do AI companies do well? 1 point

- ☐ Strategic data acquisition
- ☐ Invest in unified data warehouses
- ☐ Spot automation opportunities
- ☒ All of the above

10. Say you want to input a picture of a person's face (A), and output whether or not they are smiling (B). 1 point

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.

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- ☐ AI is a type of deep learning. (I.e., all AI algorithms are deep learning algorithms.)
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- ☒ The terms "Deep learning" and "neural network" are used almost interchangeably.

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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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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)

! This should not be selected

☒ A large neural network

✓ Correct

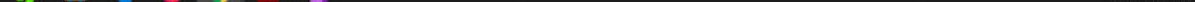
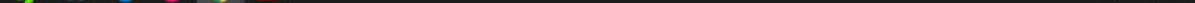
☐ A small neural network

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

Windows taskbar with icons for Start, Search, Task View, File Explorer, Edge, Firefox, Chrome, and VS Code. System tray shows network, volume, and language (ENG) settings, along with the time 19:09 and date 01-05-2020.

02 May 2020 01:10



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☐ (i) (iii) (ii)

3. What are the key steps of a Data Science project? 1 point

- ☐ Collect data
- ☐ Analyze the data
- ☐ Suggest hypothesis or actions
- ☒ All of the above

4. Machine Learning programs can help: (select all that apply) 1 point

- ☒ Automate lead sorting in sales
- ☒ Automate visual inspection in a manufacturing line
- ☒ Automate resume screening
- ☐ Customize product recommendations

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☐ Customize product recommendations

5. Unless you have a huge dataset ("Big Data"), it is generally not worth attempting machine learning or data science projects on your problem. 1 point

- ☐ True
- ☒ False

6. 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.) 1 point

- ☒ Making sure you can get enough data for this project
- ☐ Defining an engineering timeline
- ☒ Making sure that an AI system can meet the desired performance
- ☐ Ensuring that this is valuable for your business (e.g., estimating the project ROI)

7. Which of these statements about "business diligence" do you agree with? 1 point

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✓ **Congratulations! You passed!**
TO PASS 80% or higher

Keep Learning

GRADE
90%

Week 2 Quiz

LATEST SUBMISSION GRADE

90%

1. 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.

1 / 1 point

- ☒ True
☐ False

✓ Correct

2. Say you want to use Machine Learning to help your sales team with automatic lead sorting. I.e., Input A (a

1 / 1 point

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2. Say you want to use Machine Learning to help your sales team with automatic lead 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:

1 / 1 point

- (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) (i) (iii)
☒ (ii) (iii) (i)
☐ (i) (ii) (iii)
☐ (i) (iii) (ii)

✓ Correct

3. What are the key steps of a Data Science project?

1 / 1 point

- ☐ Collect data

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☒ (ii) (iii) (i)

☐ (i) (ii) (iii)

☐ (i) (iii) (ii)

✓ Correct

3. What are the key steps of a Data Science project?

1 / 1 point

☐ Collect data

☐ Analyze the data

☐ Suggest hypothesis or actions

☒ All of the above

✓ Correct

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

0.75 / 1 point

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✓ Correct

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

0.75 / 1 point

☒ Automate lead sorting in sales

✓ Correct

☒ Automate visual inspection in a manufacturing line

✓ Correct

☒ Automate resume screening

✓ Correct

☐ Customize product recommendations

 Correct

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9. 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.) **0.5 / 1 point**

- ☒ It will be used by the AI team to evaluate the performance of the algorithm.
✓ Correct
- ☒ The Test Set should ideally be identical to the Training Set.
! This should not be selected
- ☒ It should give examples of both the input A (resume) and the desired output B (whether to move forward with a candidate)
✓ Correct
- ☒ 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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forward with a candidate)

- ✓ Correct**
- ☒ It should give examples of the input A (resume) but not necessarily the desired output B (whether to move forward with a candidate).
! This should not be selected

10. Which of these are reasons that it's often unrealistic to expect an ML system to be 100% accurate? **1 / 1 point**

- ☐ You might not have enough data
- ☐ Data can be mislabeled
- ☐ Data can be ambiguous
- ☒ All of the above.
✓ Correct

WEEK 3 Quiz

02 May 2020 19:02

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Week 3 Quiz

TOTAL POINTS 10

1. 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). 1 point

- ☐ True
☒ False

2. What are the key steps to a smart speaker function? 1 point

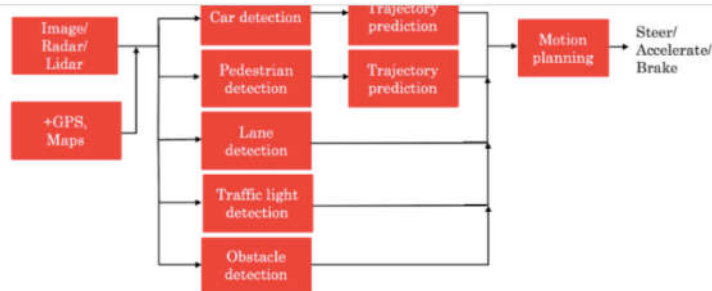
- ☒ Trigger word detection -> speech recognition -> intent recognition -> command execution.
☐ Speech recognition -> Trigger word detection -> intent recognition -> command execution.
☐ Trigger detection -> intent recognition -> speech recognition -> command execution.
☐ Trigger word detection -> intent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

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The component for pedestrian detection is usually built using:

- ☐ GANs
☐ Reinforcement learning
☐ A motion planning algorithm
☒ Supervised learning

4. 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?

1 point

- ☒ Machine learning engineer
- ☐ Machine learning researcher
- ☐ Data engineer
- ☐ AI Product Manager

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

1 point

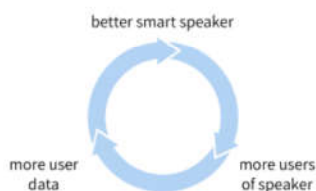
- ☐ Build an in-house AI team
- ☐ Develop an AI strategy
- ☐ Provide broad AI training
- ☒ Execute pilot projects to gain momentum

- ☐ None of the above

7. 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?

1 point

- ☒ (A)



- ☐ (B)




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8. Why is developing an AI strategy NOT the first step in the AI Transformation Playbook? 1 point

- ☐ 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.
- ☐ 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 Playbook.

9. 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. 1 point

- ☒ True
- ☐ False

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

9. 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. 1 point

- ☒ True
- ☐ False

10. Which of the following are AI pitfalls to avoid? (Select all that apply) 1 point

- ☒ Expecting AI based projects to work the first time
- ☒ Pairing engineering talent with business talent to identify feasible and valuable projects.
- ☒ Expecting AI to solve everything
- ☒ Expecting traditional planning processes to apply without changes

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

0.75 / 1 point

☒ Expecting AI based projects to work the first time

✓ Correct

☒ Pairing engineering talent with business talent to identify feasible and valuable projects.

! This should not be selected

☒ Expecting AI to solve everything

✓ Correct

☒ Expecting traditional planning processes to apply without changes

✓ Correct

✓ **Congratulations! You passed!**
TO PASS: 80% or higher

Keep Learning

GRADE
97.5%

Week 3 Quiz

LATEST SUBMISSION GRADE

97.5%

1. 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).

1 / 1 point

☐ True

☒ False

✓ Correct

2. What are the key steps to a smart speaker function?

1 / 1 point

✓ Correct

2. What are the key steps to a smart speaker function?

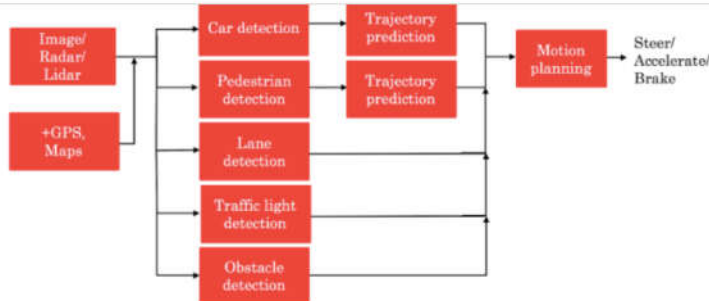
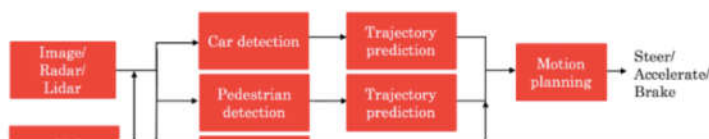
1 / 1 point

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

✓ Correct

3. Consider this system for building a self-driving car:

1 / 1 point



The component for pedestrian detection is usually built using:

- ☐ GANs
- ☐ Reinforcement learning
- ☐ A motion planning algorithm
- ☒ Supervised learning

1 / 1 point

- ✓ Correct

1 / 1 point

- ✓ Correct

✓ Correct

0.75 / 1 point

- ✓ Correct

- ! This should not be selected**

- ✓ Correct

- ✓ Correct

WEEK 4 Quiz

02 May 2020 20:37

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TOTAL POINTS 10

1. What are the current limitations of AI technology? (Select all that apply) 1 point

- ☒ AI technology can be biased
- ☒ There are no limitations to AI technology
- ☒ Explainability is hard
- ☒ AI technology can discriminate
- ☒ AI technology is susceptible to adversarial attacks

2. What is the Goldilocks Rule of AI? 1 point

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

3. Say you're building an AI system to help make diagnoses from X-ray scans. Which of the following 1 point

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- ☒ One shouldn't be too optimistic or too pessimistic about AI technology
- ☐ One should allocate many resources to defend the world from giant killer robots

3. 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? 1 point

- ☐ 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.
- ☒ Most AI systems are highly explainable, meaning that it's easy for a doctor to figure out why an AI system gave a particular diagnosis.
- ☐ AI systems are intrinsically "black box" and cannot give any explanation for their outputs.

4. 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. 1 point

- ☒ True
- ☐ False

5. 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 1 point

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☐ False

5. 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. 1 point

☒ True

☐ False

6. Which of these are good practices for addressing bias in AI? (Select all that apply) 1 point

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

☒ Systematic auditing processes to check for bias

☒ Using more inclusive/less biased data

☒ Technical solution such as "zeroing out" bias

7. Which of these are examples of adversarial attacks on an AI system? (Select all that apply) 1 point

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

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☒ Using more inclusive/less biased data

☒ Technical solution such as "zeroing out" bias

7. Which of these are examples of adversarial attacks on an AI system? (Select all that apply) 1 point

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

☒ Using AI to synthesize a fake video of a politician saying something they never actually said.

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

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

8. 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). 1 point

☒ True

☐ False

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8. 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). 1 point

☒ True

☐ False

9. What are the jobs that AI is most likely to displace over the next several years? 1 point

☐ Jobs that comprise primarily of routine, repetitive work

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

☒ Most jobs involving office work (white collar jobs)

☒ All jobs will be displaced

10. Congratulations! You deserve a pat on the back for finishing this course. 1 point

☒ True

☐ False

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1. What are the current limitations of AI technology? (Select all that apply) 0.8 / 1 point

☒ AI technology can be biased

✓ Correct

☒ There are no limitations to AI technology

! This should not be selected

☒ Explainability is hard

✓ Correct

☒ AI technology can discriminate

✓ Correct

☒ AI technology is susceptible to adversarial attacks

✓ Correct

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2. What is the Goldilocks Rule of AI? 1 / 1 point

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

✓ Correct

3. 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? 1 / 1 point

- ☐ 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.
- ☐ Most AI systems are highly explainable, meaning that it's easy for a doctor to figure out why an AI system gave a particular diagnosis.
- ☐ AI systems are intrinsically "black box" and cannot give any explanation for their outputs.

✓ Correct

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4. 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. 1 / 1 point

- ☒ True
- ☐ False

✓ Correct

5. 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. 1 / 1 point

- ☒ True
- ☐ False

✓ Correct

6. Which of these are good practices for addressing bias in AI? (Select all that apply) 0.75 / 1 point

8. 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).

1 / 1 point

- ☒ True
- ☐ False

✓ Correct

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

0 / 1 point

- ☐ Jobs that comprise primarily of routine, repetitive work
- ☐ Jobs that comprise primarily of non-routine, non-repetitive work
- ☐ Most jobs involving office work (white collar jobs)
- ☒ All jobs will be displaced

! Incorrect

✓ Correct

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

0 / 1 point

- ☐ Jobs that comprise primarily of routine, repetitive work
- ☐ Jobs that comprise primarily of non-routine, non-repetitive work **CORRECT**
- ☐ Most jobs involving office work (white collar jobs)
- ☒ All jobs will be displaced

! Incorrect

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

1 / 1 point

- ☒ True
- ☐ False

✓ Correct