



Week 4 Quiz

Quiz, 10 questions

10/10 points (100%)



Congratulations! You passed!

Next Item



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point

1.

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



AI technology is susceptible to adversarial attacks



Correct



Explainability is hard



Correct



There are no limitations to AI technology



Un-selected is correct



AI technology can discriminate



Correct



AI technology can be biased



Correct



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point

2.

What is the Goldilocks Rule of AI?



One shouldn't be too optimistic or too pessimistic about AI technology



Correct



One should allocate many resources to defend the world from giant killer robots



An AI winter is coming



AI's technology will continue to grow and can only benefit society

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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?



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 diagnosis.



Explainability is usually achieved through building a chatbot to talk to the user to explain its outputs.



AI systems are intrinsically "black box" and cannot give any explanation for their outputs.



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point

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.



True



Correct



False



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point

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.



True



Correct



False



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point

6.

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



Technical solution such as "zeroing out" bias





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Systematic auditing processes to check for bias



Correct



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



Un-selected is correct



Using more inclusive/less biased data



Correct



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point

7.

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



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



Un-selected is 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



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



Correct



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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).



True



Correct



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9.

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



All jobs will be displaced



Jobs that comprise primarily of routine, repetitive work



Correct



Most jobs involving office work (white collar jobs)



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



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point

10.

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



True



Correct



False

