

Week 4 Quiz

LATEST SUBMISSION GRADE

100%

1.Question 1

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

1 / 1 point



AI technology can discriminate

Correct



Explainability is hard

Correct



AI technology can be biased

Correct



There are no limitations to AI technology



AI technology is susceptible to adversarial attacks

Correct

2.Question 2

What is the Goldilocks Rule of AI?

1 / 1 point



An AI winter is coming



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



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



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

Correct

3.Question 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



Lack of explainability can hamper users' willingness to trust and adopt an AI system.



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



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.

Correct

4.Question 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.Question 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.Question 6

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

1 / 1 point



Technical solution such as “zeroing out” bias

Correct



Using more inclusive/less biased data

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

7.Question 7

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

1 / 1 point



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

Correct



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

Correct



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



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

Correct

8.Question 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 - Correct



False

Correct

9.Question 9

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

1 / 1 point



Jobs that comprise primarily of routine, repetitive work - Correct



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



All jobs will be displaced



Most jobs involving office work (white collar jobs)

Correct

10.Question 10

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

1 / 1 point



True - Correct



False

Correct