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

[Keep Learning]

GRADE
97.5%

Week 4 Quiz

LATEST SUBMISSION GRADE
97.5%

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

   ☑ Explainability is hard

   > ✓ **Correct**

   ☑ AI technology can discriminate

   > ✓ **Correct**

   ☑ AI technology can be biased

   > ✓ **Correct**

   ☐ There are no limitations to AI technology

   ☑ AI technology is susceptible to adversarial attacks

   > ✓ **Correct**

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

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

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

   ○ An AI winter is coming

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

   > ✓ **Correct**

3. Say you are building an AI system to help make diagnoses from X-ray scans. Which of the following   `1 / 1 point`
   statements about explainability of AI do you agree with?

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

   ○ 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.

   ○ 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.

   > ✓ **Correct**

4. Using current AI technology, if a machine learning system learns from text that reflects unhealthy   `1 / 1 point`
   biases/stereotypes, then the resulting AI software may also exhibit similarly unhealthy biases/stereotypes.

   ◉ True

   ○ False

   > ✓ **Correct**

5. Using current AI technology, if a machine learning system learns only from text that is completely neutral   `1 / 1 point`
   and does not reflect any gender biases, then we would expect it to exhibit no, or at most minimal, gender
   bias.

   ◉ True

   ○ False

   > ✓ **Correct**

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

   ☑ Systematic auditing processes to check for bias

✓ **Correct**

☑ Technical solution such as "zeroing out" bias

✓ **Correct**

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

☐ Using more inclusive/less biased data

You didn't select all the correct answers

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**

☑ 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**

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

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?   **1 / 1 point**

◯ Most jobs involving office work (white collar jobs)

◉ Jobs that comprise primarily of routine, repetitive work

◯ All jobs will be displaced

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

✓ **Correct**

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

◉ True

◯ False

✓ **Correct**