Week 4 Quiz

LATEST SUBMISSION GRADE

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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	
	☐ There are no limitations to AI technology	
	✓ Al technology is susceptible to adversarial attacks	
	Correct	
	✓ Al technology can be biased	
	✓ Correct	
2	What is the Goldilocks Rule of Al?	
۷.	An Al winter is coming	1/1 point
	One should allocate many resources to defend the world from giant killer robots	
	Al's technology will continue to grow and can only benefit society One shouldn't be too optimistic or too pessimistic about Al technology	
	Correct	
3.	Say you are building an AI system to help make diagnoses from X-ray scans. Which of the following statements about	1/1 point
	explainability of AI do you agree with? Explainability is usually achieved through building a chatbot to talk to the user to explain its outputs.	
	All 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.	
	Lack of explainability can hamper users' willingness to trust and adopt an AI system.	
	✓ Correct	
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	
	O 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)	1/1 point
	Systematic auditing processes to check for bias	
	✓ Correct	
	✓ Using more inclusive/less biased data	
	✓ Correct	
	 Using an adversarial attack on the AI system to change its outputs to be less biased ✓ Technical solution such as "zeroing out" bias 	
	reclinical solution such as zeroing out bias	
	✓ Correct	
7.	Which of these are examples of adversarial attacks on an AI system? (Select all that apply)	1/1 point
	Subtly changing an image to make an AI system mistakenly recognize a dog as a cat.	
	Correct	
	 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."	
	✓ Correct	
	Adding a sticker to a stop sign to make an AI system fail to detect it.	
	✓ Correct	
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 True	
	O False	
	✓ Correct	
9.	What are the jobs that AI is most likely to displace over the next several years?	1/1 point
	All jobs will be displaced Jobs that comprise primarily of non-routine, non-repetitive work	
	Jobs that comprise primarily of routine, repetitive work	
	Most jobs involving office work (white collar jobs)	
	✓ Correct	

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

True

O False

✓ Correct

1/1 point