Your grade: 100%

Next item \Rightarrow

Your latest: 100% • Your highest: 100% • To pass you need at least 70%. We keep your highest score.

1.	What is the goal of supervised learning?	1/1 point
	Predict the labels.	
	O Find an underlying structure of the dataset without any labels.	
	O Find the target.	
	O Predict the features.	
	○ Correct The goal for supervised learning is to be able to predict the label.	
2.	What is deep learning?	1/1 point
	Deep learning is machine learning that involves deep neural networks.	
	O Deep learning is another name for artificial intelligence.	
	O Deep learning includes artificial intelligence and machine learning.	
	O None of the above are correct.	
	Correct Deep learning is machine learning that involves using very complicated models called deep neural networks. Deep learning is a subset of machine learning.	

3.	When is a standard machine learning algorithm usually a better choice than using deep learning to get the job done?	1/1 point
	When working with small data sets.	
	O When the data is steady over time.	
	O When working with large data sets.	
	O None of the above are correct.	
	Correct A standard machine learning algorithm is a better choice when you are working with smaller datasets, and if the data is changing a lot over time and you don't have a steady dataset.	
4.	What is a Turing test?	1/1 point
	O It tests images.	
	O It tests and cleans the dataset.	
	It tests a machine's ability to exhibit intelligent behavior.	
	O It tests the dataset.	
	Correct In 1950, Alan Turing developed the Turing test to test a machine's ability to exhibit intelligent behavior. Alan Turing's test has served as a foundational threshold for artificial intelligence.	

5.	What are some of the different milestones in deep learning history?	1/1 point
	O Deep Blue defeats a world champion chess player and TensorFlow is released	
	O Deep Blue defeats a world champion chess player, and Keras is released.	
	Geoffrey Hinton's work, AlexNet, and TensorFlow	
	O Deep Blue defeats a world champion chess player, and AlexNet is created.	
	Ocrrect In 2006, the previous limitations of deep learning, namely exploding and vanishing gradients were overcome with algorithmic advancements such as Geoffrey Hinton's work on unsupervised pretraining. Neural networks are rebranded as deep learning, as we are able to train much deeper networks, networks with more layers; In 2012, a deep learning model using convolutional neural nets called AlexNet achieved a top five error of 15.3 percent; In 2015, one of the most popular libraries, TensorFlow, was built for deep learning, making it more powerful and accessible.	
6.	What is artificial intelligence?	1/1 point
	O A subset of deep learning.	
	Any program that can sense, reason, act, and adapt.	
	A subset of machine learning	
	O None of the above.	
	Correct Artificial intelligence is any program that can sense, reason, act, and adapt. It is essentially a machine taking any form of intelligent behavior.	

7.	What are two spaces within AI that are going through drastic growth and innovation?	1/1 point
	O Deep learning and machine learning.	
	Computer vision and natural language processing.	
	O Computer vision and deep learning.	
	O Language processing and deep learning.	
	Correct In two spaces we are seeing drastic growth and innovation, computer vision and natural language processing. The sharp advancements in computer vision are impacting multiple areas. For example, cars getting to the point where they can drive themselves. Similarly, natural language processing is booming with vast improvements in ability to translate, determine sentiment, clustering of new articles, writing papers, and many others.	
8.	Why did AI flourish so much in the last years?	1/1 point
	O Data storage in the cloud is much more expensive	
	O Access to hardware for cleaning data	
	Faster and inexpensive computers and data storage	
	O Stylish designed computers	
	Correct Al flourished in the last years with the cloud infrastructure now in place to store large amounts of data for much cheaper, and the plethora of new ways to capture data are now able to build larger, more new once datasets to learn underlying patterns across a multitude of fields. We also have faster	

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gests who a person on a photo is.	
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rrect exa, in our homes, recognizes our voice and answers questions or does tasks for us through natural nguage processing.	
the first two steps of a typical machine learning workflow?	1/1 point
plem statement and data cleaning.	
plem statement and data collection.	
collection and data transformation.	
e of the above answers is correct.	
rrect e first step of a typical machine learning workflow is the problem statement. What problem are you ring to solve? The second step is data collection. What data do you need to solve the problem?	
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