

Congratulations! You passed!

Grade received 100% To pass 80% or higher

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Week 4 Quiz

Latest Sub	mission	Grad	e 100%
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1.	What advantage does Federated Learning give you?	1 / 1 point
	O User data can remain private on their device but still be used to train models	
	O Users can have models trained on everybody's data	
	O Models can be frequently updated	
	All of the above	
2.	What is the privacy principle of focused collection?	1 / 1 point
	O Engineer filters all the data to get only what she needs for a calculation	
	O Data is filtered by the network to remove all irrelevant data	
	Devices report only the data needed for a specific computation	
	O Devices filter all the data from the server to only use updates	
	⊘ Correct	
3.	What is secure aggregation?	1 / 1 point
	 Devices in a network pair up, and create obfuscation keys that get cancelled out when aggregated on the server 	
	O Data is aggregated on the device before sending to the server, and sent on an encrypted channel	
	O Data is aggregated before being sent to the server, and only sent on encrypted channels	
	O Devices in a network pair up, and aggregate mutual data before sending to the server	
	⊘ Correct	
4.	TensorFlow Federated includes a Federated Learning API, a Federated Core API and a runtime for simulations. What's the role of the Federated Learning API?	1/1 point
	O It's designed to allow the expression of new Federated algorithms	
	O It is a mobile runtime for Federated Learning	
	O It is the API for everything Federated Learning	
	 It contains implementations of federated training that can be applied to existing tensorflow models and data 	
	⊘ Correct	
5.	If you want to declare a federated type, where a numeric item of data is available across all your devices, how do	1/1 point
	you do it?	, ,
	you do it? O You can't do this for privacy reasons, you have to declare it when submitting to the server	
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	Attribute the function with @uniederated_computation	
	O Attribute the function with @federated	
	Make sure it returns its value to @Clients	
	⊘ Correct	
7.	You want to return a mean value of client values, calculated on the server, back to the clients. How do you do this?	1 / 1 point
	You have to use a tff.federated_mean to calculate the value and return its results	
	O You have to explicitly open a network pipe and send the value to all of the clients using it	
	O The return value from your function is automatically mapped to the clients	
	O You can't do this for privacy reasons	
	⊘ Correct	
8.	If you want to try the tensorflow federated APIs, how do you install them for Python?	1/1 point
	O Pip install tensorflow-federated	
	O Pip install tf-federated	
	O Do nothing, they're included in TensorFlow	
	Pip install tensorflow_federated	
	⊘ Correct	