1. What does the backward() function in PyTorch do?

Your latest: 100% • Your highest: 100% • To pass you need at least 80%. We keep your highest score.

Next item →

1/1 point

	Computes the gradient of a tensor	
	O Performs matrix multiplication	
	O Saves the computational graph	
	O Initializes model parameters	
	Correct Correct! The backward() function is used to compute the gradient of a tensor, which is crucial for backpropagation and training neural networks.	
2.	What is the role of weights in a neural network during the training process?	1/1 point
	Weights are adjusted to minimize the loss function, helping the model make more accurate predictions.	
	Weights are only used during forward passes and not during backward passes.	
	O Weights determine the structure of the neural network and do not change once the network is defined.	
	Weights remain constant and do not change during the training process.	
	<ul> <li>Correct         Correct! During training, weights are updated to minimize the loss function and improve the model's predictions.     </li> </ul>	
3.	What is the role of the torch.save function in PyTorch?	1/1 point
	O To train the model	
	To save the state dictionary of a model for future use	
	O To define the model architecture	
	O To initialize model parameters	
	○ Correct Correct! The torch.save function is used to save the state dictionary of a model so it can be loaded and used later.	
4.	What is the primary purpose of partitioning data into batches during model training?	1/1 point
	To efficiently use computational resources and stabilize gradient updates	
	O To ensure different data distributions are used in training	
	O To increase the complexity of the model	
	O To simplify the implementation of the model	
	<ul> <li>Correct         Correct! Partitioning data into batches helps efficiently use computational resources and stabilizes gradient updates.     </li> </ul>	
5.	Which component in a PyTorch model is responsible for updating the model parameters based on the calculated gradients?	1/1 point
	O Activation function	
	O Loss function	
	O DataLoader	
	Optimizer	
	<ul> <li>Correct         Correct! The optimizer updates the model parameters based on the calculated gradients and the learning rate.     </li> </ul>	