Your grade: 80%

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

Next item -

ι.	What is the primary purpose of using a pretrained model in neural network training?	1/1 point
	To avoid the need for a validation dataset.	
	To prevent overfitting by using a smaller dataset.	
	To ensure 100% accuracy in classification tasks.	
	 To save time and computational resources by leveraging already learned features. 	
	 Correct Correct Pretrained models help save time and computational resources by using already learned features. 	
2.	When replacing the final classification layers of a pretrained model, what steps should be taken?	1/1 point
	✓ Initialize the new layers with random weights.	-,-,-
	_ , ,	
	 Correct! The new layers are often initialized with random weights before training. 	
	☐ Ensure the new layers have a higher number of neurons than the original layers.	
	Set the learning rate to zero for the new layers.	
	Add new layers compatible with the number of classes in the new task.	
	 Correct Correct Adding new layers that match the number of classes in the new task is necessary for proper classification. 	
	Remove the existing classification layers.	
	⊙ Correct	
	Correct! The existing classification layers should be removed to adapt the model for the new task.	
3.	What is the primary purpose of using the Adam optimizer in training an LSTM model?	1/1 point
	To increase the model's complexity	
	To reduce the number of training epochs required	
	To adapt the learning rate for each parameter	
	To maintain a constant learning rate	
	 Correct Correct! The Adam optimizer adjusts the learning rate for each parameter, which helps in faster and more efficient convergence. 	
1.	Which PyTorch function is used to change the shape of a tensor without changing its data?	0 / 1 point
•		0/1 point
	expand view	
	O squeeze	
	reshape	
	National Incorrect. Although reshape can change the shape of a tensor, it's not as efficient as view since it may create a copy.	
5.	Which of the following are steps involved in implementing an LSTM model to predict the progression of a	1/1 point
	noisy trigonometric function over time?	2/2 point
	Using ReLU activation function	
	✓ Forward function implementation	
	(c) Correct	
	Correct! Implementing the forward function is key to defining how data flows through the network.	
	☑ Dataset setup	
	 Correct Correct! Setting up the dataset is a crucial step in implementing an LSTM model. 	
	▼ Training with mean square error loss and Adam optimizer	
	 Correct Correct Training the model with the appropriate loss function and optimizer is necessary for effective learning. 	
	✓ Model class definition	

Correct
 Correct! Defining the model class is essential to structure the LSTM network.

