## Your grade: 100%

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

Next item →

1/1 point

1.	What is the primary purpose of using a pretrained model in neural network training?	1/1 point
	O To ensure 100% accuracy in classification tasks.	
	O To avoid the need for a validation dataset.	
	O To prevent overfitting by using a smaller dataset.	
	To save time and computational resources by leveraging already learned features.	
	<ul> <li>Correct         Correct! Pretrained models help save time and computational resources by using already learned features.     </li> </ul>	
2.	Which of the following are benefits of using transfer learning in neural networks?	1/1 point
	☐ Elimination of the need for data augmentation.	
	☐ Simplified model architecture.	
	Reduced training time.	
	<ul> <li>Correct</li> <li>Correct! Transfer learning reduces training time by leveraging pre-learned features.</li> </ul>	
	✓ Improved model accuracy with less data.	
	⊙ Correct	
	Correct! Transfer learning can improve accuracy even with less data by utilizing features from pretrained models.	
	☑ Enhanced feature extraction.	
	⊙ correct     Correct! Transfer learning enhances feature extraction by using pretrained models as a starting point.	
3.	Which of the following are steps involved in implementing an LSTM model to predict the progression of a noisy trigonometric function over time?	1/1 point
	✓ Model class definition	
	<ul> <li>Correct         Correct! Defining the model class is essential to structure the LSTM network.     </li> </ul>	
	✓ Dataset setup	
	<ul><li>○ Correct</li></ul>	
	Correct! Setting up the dataset is a crucial step in implementing an LSTM model.	
	Forward function implementation	
	⊙ correct     Correct! Implementing the forward function is key to defining how data flows through the network.	
	☑ Training with mean square error loss and Adam optimizer	
	<ul> <li>Correct         Correct! Training the model with the appropriate loss function and optimizer is necessary for effective learning.     </li> </ul>	
	Using ReLU activation function	
4.	What is an advantage of Long Short-Term Memory (LSTM) cells over basic Recurrent Neural Network (RNN) cells?	1/1 point
	LSTM cells can better capture long-term dependencies in data	
	O LSTM cells eliminate the need for activation functions	
	O LSTM cells are simpler to implement	
	O LSTM cells require less computational power	
	Correct Correct! LSTM cells are specifically designed to address the vanishing gradient problem, making them more effective at capturing long-term dependencies.	

5. Which PyTorch function is used to change the shape of a tensor without changing its data?

expand

(	squeeze	
reshape		
view		
	⊙ Correct     Correct! The view function in PyTorch is used to reshape a tensor without altering its data.	