_	Assessment 1 Back Graded Assignment • 15 min	
_	Back Graded Assignment • 15 min English ~ Due Mar 19, 11:59 PM IST	
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Yo	our grade: 100%	
	r latest: 100% • Your highest: 100%	
То р	pass you need at least 80%. We keep your highest score.	
	Next item →	
1.	When implementing autoencoders for data compression, which of the following represents the bottleneck layer?	1/1 point
	The hidden layer with the smallest number of neurons	
	O The input layer	
	O The output layer	
	○ The activation layer	
	Correct Correct! The bottleneck layer is the hidden layer with the smallest number of neurons, which forces compression of the input data.	
	correct the social correct by a site made rayer manager an action, their orea compression of the input data.	
2.	What are some common encoding and preprocessing steps required for building a movie recommendation system?	1/1 point
	✓ One-hot encoding categorical variables	
	⊙ Correct	
	Correct! One-hot encoding is commonly used to convert categorical variables into numerical format.	
	✓ Normalizing ratings	
	© correct Covered Name of the shallowing state of a distribution to a description of the shallowing state of the shallowing s	
	Correct! Normalizing ratings helps in standardizing the data values.	
	Applying collaborative filtering	
	Removing stop words	
	✓ Creating embedding layers	
	 Correct Correct! Embedding layers are used to convert high-dimensional categorical data into a lower-dimensional space. 	
3.	Which component of an autoencoder is responsible for reconstructing the input data?	1/1 point
	Decoder	
	O Encoder	
	O Activation function	
	○ Loss function	
	Correct Correct! The decoder part of an autoencoder reconstructs the input data from the encoded representation.	
4.	Which of the following are challenges associated with Generative Adversarial Networks (GANs)?	1/1 point
	✓ Mode collapse	
	 Correct Correct. Mode collapse is a common issue where the generator produces limited diversity in output. 	
	☐ Credit assignment	
	✓ Training instability	
	 Correct Correct. Training instability is a significant challenge when training GANs. 	
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