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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Deep Learning - IIT Ropar (course)



	Mook 9 : Assignment 9	
Course	Week 8 : Assignment 8	
outline	The due date for submitting this assignment has passed. Due on 2024-09-18, 23:59	IST.
About	As per our records you have not submitted this assignment.	
NPTEL ()	1) Which of the following activation functions is not zero-centered?	ooint
How does an	Sigmoid	
NPTEL 	Tanh	
online course	ReLU	
work? ()	Softmax	
Week 1 ()	No, the answer is incorrect. Score: 0	
Week 2 ()	Accepted Answers: Sigmoid	
Week 3 ()	ReLU Softmax	
week 4 ()	,	ooint
Week 5 ()	gradient problem?	
	Sigmoid	
Week 6 ()	Tanh	
Wook 7 ()	ReLU	
Week 7 ()	None of these	
Week 8 ()	No, the answer is incorrect. Score: 0	
A quick recap	Accepted Answers:	
of training	ReLU	
deep neural networks	3) Given a neuron initialized with weights $w_1=1.5,w_2=0.5,$ and inputs $x_1=0.2,$	\wedge
(unit?	$x_1 = 0.5$, calculate the output of a ReLU neuron.	
	2.0, 2.0.2.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	

unit=107&less on=108)		
Unsupervised	No, the answer is incorrect. Score: 0	
pre-training (unit?	Accepted Answers:	
unit=107&less	(Type: Numeric) 0.05	1 point
on=109)		i point
Better	4) What makes batch normalization effective in deep networks?	1 point
activation	It reduces the covariance shift	
functions	☐ It accelerates training	
(unit? unit=107&less	☐ It introduces regularization	
on=110)	☐ It reduces the internal shift in activations	
Better initialization	No, the answer is incorrect. Score: 0	
strategies	Accepted Answers:	
(unit?	It reduces the covariance shift	
unit=107&less on=111)	It accelerates training	
011-111)	It reduces the internal shift in activations	
Batch Normalization (unit?	5) Which of the following methods can help to avoid saturation in deep learning?	1 point
unit=107&less	Using a different activation function.	
on=112)	○ Increasing the learning rate.	
Lecture	☐ Increasing the model complexity	
Material for	All of the above.	
Week 8 (unit? unit=107&less on=113)	No, the answer is incorrect. Score: 0	
011–113)	Accepted Answers:	
Week 8	Using a different activation function.	
Feedback Form: Deep		
Learning - IIT	6) Which of the following is true about the role of unsupervised pre-training in deep learning?	1 point
Ropar (unit?	learning:	
unit=107&less on=191)	It is used to replace the need for labeled data	
,	It is used to initialize the weights of a deep neural network	
O Quiz: Week 8: Assignment	It is used to fine-tune a pre-trained model	
8	It is only useful for small datasets	
(assessment? name=296)	No, the answer is incorrect. Score: 0	
Week 9 ()	Accepted Answers: It is used to initialize the weights of a deep neural network	
week 10 ()	7) Which of the following is an advantage of unsupervised pre-training in deep	1 point
Week 11 ()	learning?	
TTGGR 11 ()	☐ It helps in reducing overfitting	
Week 12 ()	Pre-trained models converge faster	
	It improves the accuracy of the model	
	— It improves the accuracy of the model	

Davimland	☐ It requires fewer computational resources	
Download Videos ()		
videos ()	No, the answer is incorrect. Score: 0	
Books ()	Accepted Answers:	
	It helps in reducing overfitting	
Text	Pre-trained models converge faster	
Transcripts	It improves the accuracy of the model	
0	8) What is the main cause of the Dead ReLU problem in deep learning?	1 point
Problem	O High variance	
Solving	○ High negative bias	
Session - July 2024 ()	Overfitting	
July 2024 ()	Underfitting	
	No, the answer is incorrect.	
	Score: 0 Accepted Answers:	
	High negative bias	
	9) How can you tell if your network is suffering from the Dead ReLU problem?The loss function is not decreasing during training	1 point
	The accuracy of the network is not improving	
	A large number of neurons have zero output	
	The network is overfitting to the training data	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	A large number of neurons have zero output	
	10) What is the purpose of Batch Normalization in Deep Learning?	1 point
	To improve the generalization of the model	
	☐ To reduce overfitting	
	○ To reduce bias in the model	
	○ To ensure that the distribution of the inputs at different layers doesn't change	
	No, the answer is incorrect. Score: 0	

To ensure that the distribution of the inputs at different layers doesn't change



Accepted Answers: