Congratulations! You passed!

Grade received 100% To pass 80% or higher

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Practical aspects of Deep Learning

Latest Submission Grade 100%

L If you have 10,000,000 examples, how would	you split the train/dev/test set?	1/1 point
33% train . 33% dev . 33% test		
98% train . 1% dev . 1% test		
60% train . 20% dev . 20% test		
⊘ Correct		
2. The dev and test set should:		1 / 1 point
Come from different distributions		
Come from the same distribution		
Be identical to each other (same (x,y) pair	rs)	
Have the same number of examples		
⊘ Correct		
 If your Neural Network model seems to have (Check all that apply.) 	high bias, what of the following would be promising things to try?	1/1 point
Make the Neural Network deeper		
⊘ Correct		
Get more test data		
Increase the number of units in each hide	den layer	
⊘ Correct		
Get more training data		
Add regularization		
bananas and oranges. Suppose your classifier	kiosk for a supermarket, and are building a classifier for apples, r obtains a training set error of 0.5%, and a dev set error of 7%. Which improve your classifier? (Check all that apply.)	1/1 point
Increase the regularization parameter lar		
_		
○ Correct	and do	
 □ Decrease the regularization parameter la ✓ Get more training data 	inibud	
Get more training data		
⊘ Correct		
Use a bigger neural network		
5. What is weight decay?		
		1/1 point
	by imposing a ceiling on the values of the weights.	
Gradual corruption of the weights in the The process of gradually decreasing the I		
_	gularization) that results in gradient descent shrinking the weights on	
every iteration.	generally that regard in gradient descent similaring the weights off	
⊘ Correct		
5. What happens when you increase the regular	ization hyperparameter lambda?	1/1 point
O Doubling lambda should roughly result in	n doubling the weights	
Weights are pushed toward becoming big	gger (further from 0)	

	Gradient descent taking bigger steps with each iteration (proportional to lambda)	
	Weights are pushed toward becoming smaller (closer to 0)	
	⊙ Correct	
7.	With the inverted dropout technique, at test time:	1/1 point
	You do not apply dropout (do not randomly eliminate units) and do not keep the 1/keep_prob factor in the calculations used in training	
	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training	
	You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations used in training.	
	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.	
	⊙ Correct	
8.	Increasing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check the two that apply)	1 / 1 point
	☐ Increasing the regularization effect	
	Reducing the regularization effect	
	⊙ Correct	
	Causing the neural network to end up with a higher training set error	
	Causing the neural network to end up with a lower training set error	
	⊙ Correct	
9.	Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)	1/1 point
	∠2 regularization ∠2 regulariza	
	⊙ Correct	
	☐ Vanishing gradient	
	☑ Data augmentation	
	⊙ Correct	
	☐ Xavier initialization	
	☑ Dropout	
	⊙ Correct	
	☐ Exploding gradient	
	☐ Gradient Checking	
10	Why do we normalize the inputs x?	1/1 point
	Normalization is another word for regularization—It helps to reduce variance	
	O It makes the parameter initialization faster	
	It makes it easier to visualize the data	
	It makes the cost function faster to optimize	
	⊘ Correct	