

✓ Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

100%

Practical aspects of deep learning

LATEST SUBMISSION GRADE 100%		
1.	If you have 10,000,000 examples, how would you split the train/dev/test set?	1/1 point
	 98% train . 1% dev . 1% test 33% train . 33% dev . 33% test 	
	60% train . 20% dev . 20% test	
	✓ Correct	
2.	The dev and test set should:	1/1 point
	Come from the same distribution	
	Come from different distributions	
	Be identical to each other (same (x,y) pairs)	
	Have the same number of examples	
	✓ Correct	
3.	If your Neural Network model seems to have high bias, what of the following would be promising things to try? (Check all that apply.) Add regularization Make the Neural Network deeper	1/1 point
	✓ Correct	
	✓ Increase the number of units in each hidden layer	
	✓ Correct	
	Get more training data	
	Get more test data	
4.	You are working on an automated check-out klosk for a supermarket, and are building a classifier for apples, bananas and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set error of 7%. Which of the following are promising things to try to improve your classifier? (Check all that apply.) Increase the regularization parameter lambda	1/1 point
	✓ Correct	
	Decrease the regularization parameter lambda	

	~	Get more training data	
		✓ Correct	
		Use a bigger neural network	
5.	Wh	at is weight decay?	1 / 1 point
	•	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.	
	0	Gradual corruption of the weights in the neural network if it is trained on noisy data.	
	0	The process of gradually decreasing the learning rate during training.	
	0	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.	
		✓ Correct	
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о.	_	uat happens when you increase the regularization hyperparameter lambda? Weights are pushed toward becoming smaller (closer to 0)	1/1 point
		Weights are pushed toward becoming smaller (closer to 0) Weights are pushed toward becoming bigger (further from 0)	
	0	Doubling lambda should roughly result in doubling the weights	
	0	Gradient descent taking bigger steps with each iteration (proportional to lambda)	
		✓ Correct	
7.	Wit	th the inverted dropout technique, at test time:	1/1 point
	0	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training	
	0	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.	
	0	You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations	
	•	used in training. 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	
		✓ Correct	
8.	Incr	reasing 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.	Wh	nich of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)	1/1 point
		Vanishing gradient	

Xavier initialization

