

✓ Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

grade 90%

Practical aspects of Deep Learning

	TEST SUBMISSION GRADE	
1.	If you have 10,000,000 examples, how would you split the train/dev/test set?	1 / 1 point
	60% train . 20% dev . 20% test	
	98% train . 1% dev . 1% test	
	33% train . 33% dev . 33% test	
	✓ Correct	
2.	The dev and test set should:	0 / 1 point
	Come from different distributions	
	Be identical to each other (same (x,y) pairs)	
	Have the same number of examples	
	Come from the same distribution	
	× Incorrect	
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.)	1 / 1 point
	Get more test data	
	Make the Neural Network deeper	
	✓ Correct	
	Add regularization	
	Increase the number of units in each hidden layer	
	✓ Correct	
	Get more training data	
4.	You are working on an automated check-out kiosk 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.)	1 / 1 point
	Increase the regularization parameter lambda	
	✓ Correct	

Decrease the regularization parameter lambda	
Get more training data	
✓ Correct	
Use a bigger neural network	
Ose a bigger hedian network	
5. What is weight decay?	1 / 1 point
A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.	
The process of gradually decreasing the learning rate during training.	
Gradual corruption of the weights in the neural network if it is trained on noisy data.	
 A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration. 	
Kerddon.	
✓ Correct	
6. What happens when you increase the regularization hyperparameter lambda?	1 / 1 point
Weights are pushed toward becoming bigger (further from 0)	
Gradient descent taking bigger steps with each iteration (proportional to lambda)	
Weights are pushed toward becoming smaller (closer to 0)	
Doubling lambda should roughly result in doubling the weights	
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.	
O 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	
Education of the manufacture of the department of the manufacture of t	
✓ Correct	

9.	Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)	1 / 1 point
	☐ Vanishing gradient	
	Exploding gradient	
	✓ Data augmentation	
	✓ Correct	
	Xavier initialization	
	Gradient Checking	
	✓ Dropout	
	✓ Correct	
	✓ L2 regularization	
	✓ Correct	
10.	Why do we normalize the inputs x ?	1 / 1 point
	It makes the cost function faster to optimize	
	It makes the parameter initialization faster	
	Normalization is another word for regularization–It helps to reduce variance	
	It makes it easier to visualize the data	
	✓ Correct	