

✓ Congratulations! You passed! TO PASS 80% or higher

☐ Nacreases the remularization narameter lambda

Keep Learning

grade 100%

Practical aspects of deep learning

	ATEST SUBMISSION GRADE		
1.	If you have 10,000,000 examples, how would you split the train/dev/test set?	1/1 point	
	O 33% train . 33% dev . 33% test		
	98% train . 1% dev . 1% test		
	O 60% train . 20% dev . 20% test		
	✓ Correct		
2.	The dev and test set should:	1/1 point	
	Come from the same distribution		
	O 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 variance, what of the following would be promising things to try?	1/1 point	
	Make the Neural Network deeper		
	Get more test data		
	☐ Increase the number of units in each hidden layer		
	Get more training data		
	✓ Correct		
	✓ Add regularization		
	✓ Correct		
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		

	Get more training data	
	✓ Correct	
	Use a bigger neural network	
5.	What is weight decay? The process of gradually decreasing the learning rate during training.	1/1 point
	Gradual corruption of the weights in the neural network if it is trained on noisy data.	
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.	
	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.	
	✓ Correct	
6.	What happens when you increase the regularization hyperparameter lambda?	1 / 1 point
	Weights are pushed toward becoming smaller (closer to 0)	
	Weights are pushed toward becoming bigger (further from 0)	
	O Doubling lambda should roughly result in doubling the weights	
	Gradient descent taking bigger steps with each iteration (proportional to lambda)	
	✓ Correct	
7.	With the inverted dropout technique, at test time:	1/1 point
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	Exploding gradient	
	☐ Vanishing gradient	
	Xavier initialization	
	Gradient Checking	
	✓ Data augmentation	
	✓ Correct	
	✓ Dropout	
	✓ Correct	
	✓ L2 regularization	
	✓ Correct	
10.	. Why do we normalize the inputs x ?	1/1 point
	it makes the parameter initialization faster	
	It makes it easier to visualize the data	
	Normalization is another word for regularizationit helps to reduce variance	
	It makes the cost function faster to optimize	
	✓ Correct	