Teste, 10 questions

✓ Parabéns! Você foi aprovado! Próximo item 1/1 pontos If you have 10,000,000 examples, how would you split the train/dev/test 98% train . 1% dev . 1% test Correto 60% train . 20% dev . 20% test 33% train . 33% dev . 33% test 1/1 pontos 2. The dev and test set should: Come from the same distribution Correto

Come from different distributions

Be identical to each other (same (x,y) pairs)

Have the same number of examples Practical aspects of deep learning

Teste, 10 questions

~	1/1 pontos		
	Neural Network model seems to have high variance, what of the ng would be promising things to try?		
	Add regularization		
Corr	eto		
	Get more training data		
Corr	eto		
	Increase the number of units in each hidden layer		
Não	selecionado está correto		
	Get more test data		
Não	selecionado está correto		
	Make the Neural Network deeper		
Não selecionado está correto			
~	1/1 pontos		

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.)

 Increase the regularization narameter lambels
Increase the regularization parameter lambda

Practical aspects of deep learning

10/10 points (100%)

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	Decrease the regularization parameter lambda			
Não :	Não selecionado está correto			
Corre	Get more training data			
Corre				
	Use a bigger neural network			
Não	Não selecionado está correto			
/	1/1 pontos			
5. Vhat is	s weight decay?			
0	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.			
Сани				
Corre	eto			
	Gradual corruption of the weights in the neural network if it is trained on noisy data.			
	The process of gradually decreasing the learning rate during training.			
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.			



What happens when you increase the regularization hyperparameter Practical aspects of deep learning

Weights are pushed toward becoming smaller (closer to 0)

10/10 points (100%)

Teste, 10 questions	Teste,	10 c	guestion	S
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	Weights are pushed toward becoming bigger (further from 0)
	Doubling lambda should roughly result in doubling the weigh
	Gradient descent taking bigger steps with each iteration (proportional to lambda)
~	1/1 pontos
7. With t	he inverted dropout technique, at test time:
	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.
	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in traini
0	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

8.

Increasing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check the two that apply)

Increasing the regularization e	ffect

Practical aspects of deep learning

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10/10 points (100%)

estions	Não selecionado está correto	10,
	Reducing the regularization effect	
	Correto	
	Causing the neural network to end up with a higher training set error	
	Não selecionado está correto	
	Causing the neural network to end up with a lower training set error	
	Correto	
٠	1/1 pontos	
V	9. Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)	
	Gradient Checking	
	Não selecionado está correto	
	Vanishing gradient	
	Não selecionado está correto	
	Exploding gradient	
	Não selecionado está correto	
	Dropout	

Correto

Practical aspects of deep learning

points (100%)

ractical as	pecis	ou deep learning	10/10
este, 10 questions		L2 regularization	
	Corre	eto	
		Xavier initialization	
	Não	selecionado está correto	
		Data augmentation	
	Corr	eto	
	~	1/1 pontos	
	10.		
		o we normalize the inputs <i>x</i> ?	
		It makes the parameter initialization faster	
		It makes it easier to visualize the data	
	0	It makes the cost function faster to optimize	
	Corre	eto	
	2011		
		Normalization is another word for regularizationIt helps to reduce variance	





