Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

Retake the assignment in **7h 56m**

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1.	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	
	60% train. 20% dev. 20% test	
	98% train. 1% dev. 1% test	
	∠ [¬] Expand	
	✓ Correct	
2.	In a personal experiment, an M.L. student decides to not use a test set, only train-dev sets. In this case which of the following is true? He won't be able to measure the bias of the model.	1/1 point
	Not having a test set is unacceptable under any circumstance.	
	He won't be able to measure the variance of the model.	
	He might be overfitting to the dev set.	
	∠ ⁷ Expand	
	 Correct Yes. Although not recommended, if a more accurate measure of the performance is not necessary it is ok to not use a test set. However, this might cause an overfit to the dev set. 	
3.	A model developed for a project is presenting high bias. One of the sponsors of the project offers some resources that might help reduce the bias. Which of the following additional resources has a better chance to help reduce the bias?	1/1 point
	Gather more data for the project.	
	Use different sources to gather data and better test the model.	
	Give access to more computational resources like GPUs.	
	∠ ⁿ Expand	
	 Correct Yes. This can allow the developers to try bigger networks, train for more cycles, and test different architectures. 	

4.		working on an automated check-out kiosk for a supermarket, and are building a classifier for apples, bananas and oranges. Suppose your classifier 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	
	Ľ	⁷ Expand	
	⊘ co	orrect Great, you got all the right answers.	
5.	Which o	of the following are regularization techniques?	1/1 point
		Increase the number of layers of the network.	
		✓ Dropout.	
		✓ Correct Correct. Using dropout layers is a regularization technique.	
		Gradient Checking.	
		Weight decay.	
		✓ Correct Correct. Weight decay is a form of regularization.	
	L'	[₹] Expand	
	⊘ co	orrect ireat, you got all the right answers.	
6.	To redu	ice high variance, the regularization hyperparameter lambda must be increased. True/False?	1/1 point
		○ False	
		True	
	L'	⁷ Expand	

✓ Corre Corre	ect. By increasing the regularization parameter the magnitude of the weight parameters is reduced. This helps reduce the variance.	
7. With the in	verted dropout technique, at test time:	1/
C	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training	
	training	
C	You apply dropout (randomly eliminating units) but 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.	
	, ·	
∠ ⁷ E	expand	
	ect	
8. Increasing	the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check the two that apply)	1/
	Increasing the regularization effect	
\checkmark	Reducing the regularization effect	
	✓ Correct	
	Causing the neural network to end up with a higher training set error	
\checkmark	Causing the neural network to end up with a lower training set error	
	✓ Correct	
∠ ⁷ E	Expand	
✓ Corre Great	t, you got all the right answers.	
9. Which of th	nese techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)	1/
✓] Dropout	
	✓ Correct	
	Gradient Checking	
	Exploding gradient	
	Vanishing gradient	
] Xavier initialization	
✓	L2 regularization	
	✓ Correct	

