✓ Congratulations! You passed!

Next Item

| ~ | 1 / 1 points | |
|----------------|---|--|
| 1. If you h | nave 10,000,000 examples, how would you split the train/dev/test set? | |
| | 60% train . 20% dev . 20% test | |
| 0 | 98% train . 1% dev . 1% test | |
| Correct | | |
| | 33% train . 33% dev . 33% test | |
| ~ | 1 / 1 points | |
| 2. The de | v and test set should: | |
| Comm | Come from the same distribution | |
| Corr | ect | |
| | Come from different distributions | |

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

Have the same number of examples 1/1 points 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.) Increase the number of units in each hidden layer Correct Make the Neural Network deeper Correct Add regularization **Un-selected is correct** Get more training data **Un-selected** is correct Get more test data **Un-selected** is correct 1/1 points

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 parameter lambda | |
|------------------------|---|--|
| Corre | ect | |
| | | |
| | Decrease the regularization parameter lambda | |
| Un-selected is correct | | |
| | Get more training data | |
| Corre | ect | |
| | | |
| | Use a bigger neural network | |
| Un-se | elected is correct | |
| | | |
| | | |
| ~ | 1 / 1 points | |
| 5. | | |
| what is | s weight decay? | |
| \bigcirc | 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. | |
| 0 | A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration. | |
| | | |
| Correct | | |
| | Gradual corruption of the weights in the neural network if it is trained on noisy data. | |
| | 1/1 | |

points

| What happens when you increase the regularization hyperparameter lambda? | | |
|--|--|--|
| 0 | Weights are pushed toward becoming smaller (closer to 0) | |
| Corre | ect | |
| | | |
| | Weights are pushed toward becoming bigger (further from 0) | |
| | Doubling lambda should roughly result in doubling the weights | |
| | Gradient descent taking bigger steps with each iteration (proportional to lambda) | |
| ~ | 1 / 1 points | |
| 7. | a invested drawaut tach pieva at toot times. | |
| vvitri tri | e 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) and do not keep the 1/keep_prob factor in the calculations used in training | |
| 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 | |
| Сонис | | |
| Corre | tu | |
| | You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training. | |
| ~ | 1 / 1 points | |
| | sing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the ng: (Check the two that apply) | |
| | Increasing the regularization effect | |

| Un-selected is correct | | |
|------------------------|---|--|
| | Reducing the regularization effect | |
| Corre | ect | |
| lln se | Causing the neural network to end up with a higher training set error | |
| 011-30 | elected is correct | |
| Counc | Causing the neural network to end up with a lower training set error | |
| Corre | ect | |
| | | |
| ~ | 1 / 1 points | |
| | of these techniques are useful for reducing variance (reducing ting)? (Check all that apply.) | |
| | Data augmentation | |
| Corre | ect | |
| Un-se | Vanishing gradient elected is correct | |
| | Exploding gradient | |
| Un-selected is correct | | |
| | L2 regularization | |

Correct

| | Dropout | |
|---|---|--|
| Correct | | |
| | Gradient Checking | |
| Un-selected is correct | | |
| | Xavier initialization | |
| Un-selected is correct | | |
| | | |
| ~ | 1 / 1 points | |
| 10. Why do we normalize the inputs x ? | | |
| | Normalization is another word for regularizationIt helps to reduce variance | |
| 0 | It makes the cost function faster to optimize | |
| Correct | | |
| | | |
| | It makes it easier to visualize the data | |
| | It makes the parameter initialization faster | |





