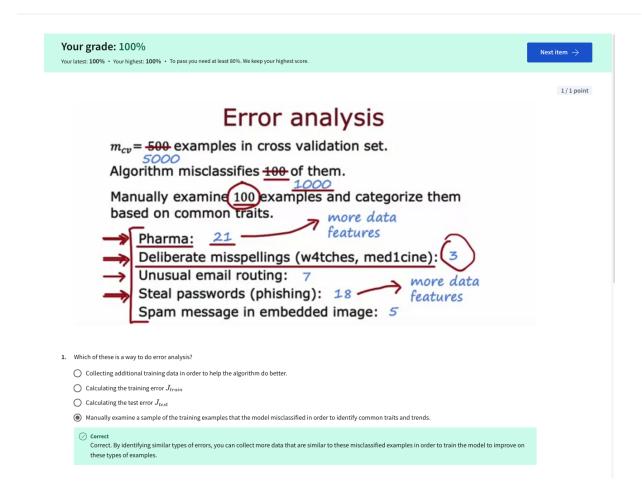
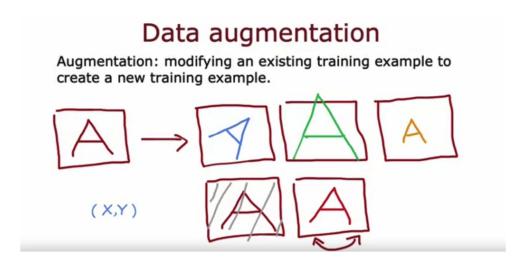
## AdvancedLearningAlgorithms - WEEK 3 - NeuralNetworkTraining - QUIZ 3 (MachineLearningDevelopmentProcess)

Link: <u>AdvancedLearningAlgorithms - WEEK 3 - NeuralNetworkTraining - QUIZ 3 (MachineLearningDevelopmentProcess)</u>



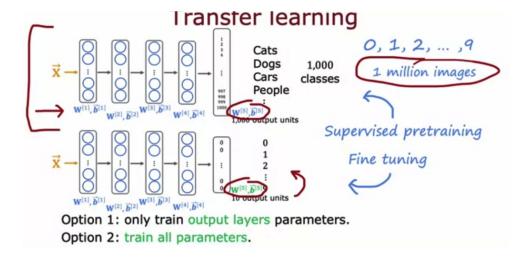
1/1 point



- 2. We sometimes take an existing training example and modify it (for example, by rotating an image slightly) to create a new example with the same label. What is this process called?
  - Machine learning diagnostic
  - O Error analysis
  - Data augmentation
  - O Bias/variance analysis
  - **⊘** Correct

Yes! Modifying existing data (such as images, or audio) is called data augmentation.

1/1 point



- 3. What are two possible ways to perform transfer learning? Hint: two of the four choices are correct.
  - Given a dataset, pre-train and then further fine tune a neural network on the same dataset.
  - You can choose to train just the output layers' parameters and leave the other parameters of the model fixed.

Correct. The earlier layers of the model may be reusable as is, because they are identifying low level features that are relevant to your task.

- Download a pre-trained model and use it for prediction without modifying or re-training it.
- You can choose to train all parameters of the model, including the output layers, as well as the earlier layers.

Correct Correct. It may help to train all the layers of the model on your own training set. This may take more time compared to if you just trained the parameters of the output layers.