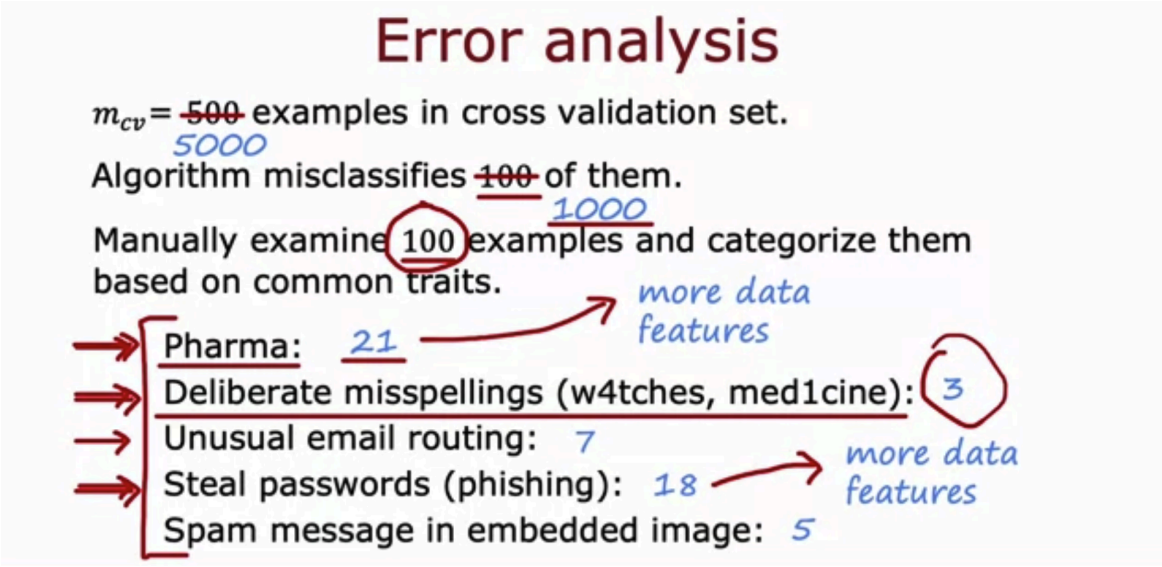
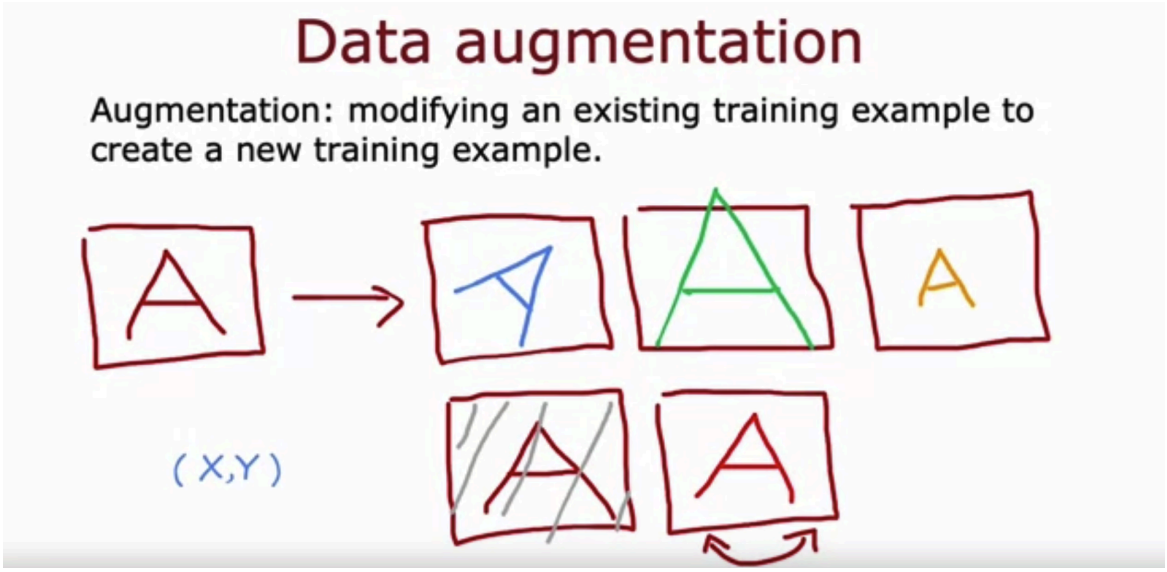
1 point



Which of these is a way to do error analysis?

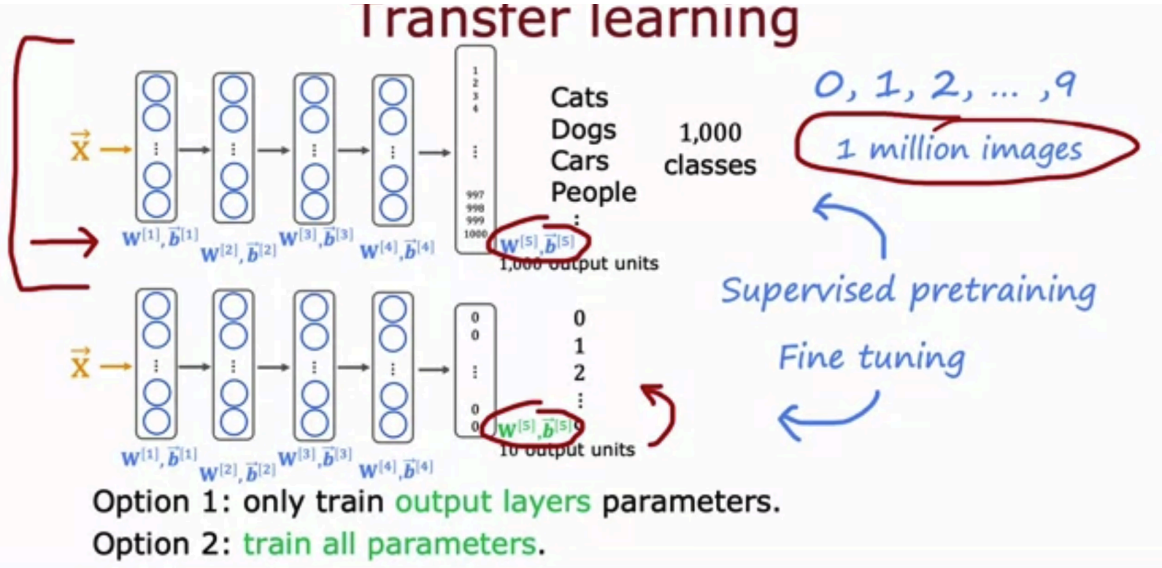
- ○ Collecting additional training data in order to help the algorithm do better.
- ○ Calculating the training error J_{train}
- ◉ Manually examine a sample of the training examples that the model misclassified in order to identify common traits and trends.
- ○ Calculating the test error J_{test}

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?

- ○ Bias/variance analysis
- ○ Machine learning diagnostic
- ◉ Data augmentation
- ○ Error analysis



3.

What are two possible ways to perform transfer learning? Hint: two of the four choices are correct.

- [x] You can choose to train just the output layers' parameters and leave the other parameters of the model fixed.
- [x] Download a pre-trained model and use it for prediction without modifying or re-training it.
- [ ] Given a dataset, pre-train and then further fine tune a neural network on the same dataset.
- [ ] You can choose to train all parameters of the model, including the output layers, as well as the earlier layers.