

Correct

type of data.

Correct

14. You've handily beaten your competitor, and your system is now deployed in Peacetopia and is protecting

the citizens from birds! But over the last few months, a new species of bird has been slowly migrating into the area, so the performance of your system slowly degrades because your data is being tested on a new

0/1分

1/1分

You have only 1,000 images of the new species of bird. The city expects a better system from you within the next 3 months. Which of these should you do first? Use the data you have to define a new evaluation metric (using a new dev/test set) taking into account the new species, and use that to drive further progress for your team. Put the 1,000 images into the training set so as to try to do better on these birds. Try data augmentation/data synthesis to get more images of the new type of bird. Add the 1,000 images into your dataset and reshuffle into a new train/dev/test split. Incorrect 15. The City Council thinks that having more Cats in the city would help scare off birds. They are so happy with your work on the Bird detector that they also hire you to build a Cat detector. (Wow Cat detectors are just

incredibly useful aren't they.) Because of years of working on Cat detectors, you have such a huge dataset of 100,000,000 cat images that training on this data takes about two weeks. Which of the statements do you agree with? (Check all that agree.) Needing two weeks to train will limit the speed at which you can iterate. / Correct

training with just 10,000,000 examples to gain a \approx 10x improvement in how quickly you can run experiments, even if each model performs a bit worse because it's trained on less data. / Correct Having built a good Bird detector, you should be able to take the same model and hyperparameters and just apply it to the Cat dataset, so there is no need to iterate.

If 100,000,000 examples is enough to build a good enough Cat detector, you might be better of

Buying faster computers could speed up your teams' iteration speed and thus your team's productivity.