Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 90% or higher

- 1. Which of these statements do you agree with regarding structured vs. unstructured data problems?
 - It is generally easier for humans to label data on unstructured data, and easier to apply data augmentation on structured data.
 - It is generally easier for humans to label data and to apply data augmentation on unstructured data than structured data.
 - It is generally easier for humans to label data on structured data, and easier to apply data augmentation on unstructured data.
 - It is generally easier for humans to label data and to apply data augmentation on structured data than unstructured data.
 - ✓ Correct

That's right! Humans are better able to label unstructured data such as images and audio clips than complex, high-dimensional structured data.

As well, it's not always possible to apply data augmentation to structured data.

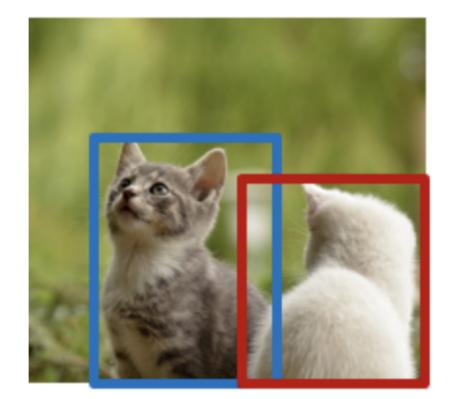
2.	Take speech recognition. Some labelers transcribe with "" (as in, "Um today's weather") whereas others do so with commas ",". Human-level performance (HLP) is measured according to how well one transcriber agrees with another. You work with the team and get everyone to consistently use commas ",". What effect will this have on HLP?
	HLP will increase.
	O HLP will decrease.
	O HLP will stay the same.
	Correct That's right! Since the labels will be more consistent, the labelers will agree with each other more often, raising HLP.

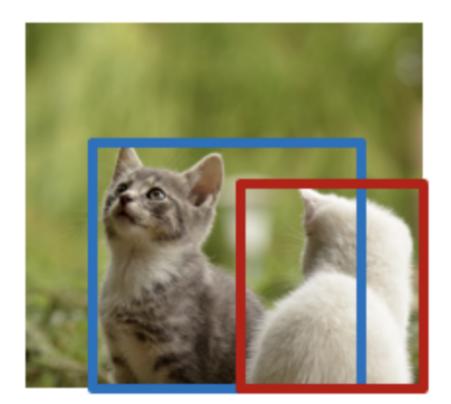
camera to improve your system's performance.

Get a big dataset of many training examples, since this is a challenging problem that will require a big dataset to do well on. Correct

3. Take a phone visual inspection problem. Suppose even a human inspector looking at an image cannot tell if there is a scratch. If however the same

That's right! If even a human looking at the image cannot identify the presence of a scratch, you'll need to improve the optical quality of your





What is the most likely cause of this?
C Labelers have not had enough coffee.
That this should have been posed as a segmentation rather than a detection task.
Ambiguous labeling instructions.
Cazy labelers.
Correct That's right! Your hardworking labelers may interpret the ambiguous instructions differently and label the images differently. Improve your instructions, and your labelled data will improve!

Type of defect	Accuracy	HLP	% of data
Scratch	95%	98%	50%
Discoloration	90%	90%	50%

You decide that it might be worth *checking for label consistency* on both scratch and discoloration defects. If you had to pick one to start with, which would you pick?

- It is more promising to check (and potentially improve) label consistency on discoloration defects than scratch defects. Since HLP is lower on discoloration, it's possible that there might be ambiguous labelling instructions that is affecting HLP.
- It is more promising to check (and potentially improve) label consistency on scratch defects than discoloration defects, since HLP is higher on scratch defects and thus it's more reasonable to expect high consistency.

⊘ Correct

That's right! HLP is lower for discoloration defects so there is an opportunity to improve this metric by improving label consistency.

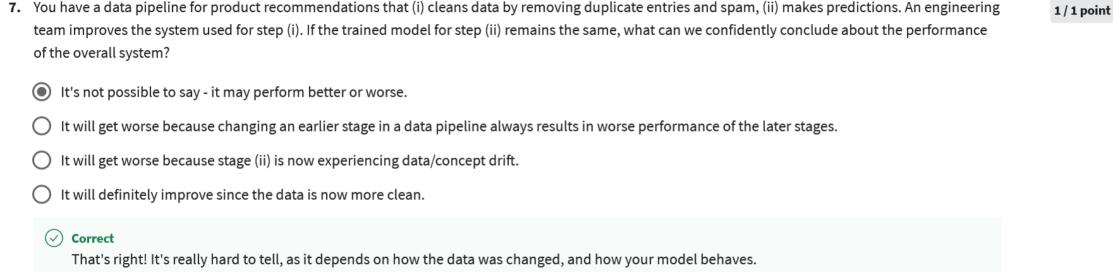
) True

1/1 point

False

⟨√⟩ Correct

Right on! Collecting and labelling data is an iterative process, get into the data iteration loop as quickly as possible.



That's right!

	e working on phone visual inspection, where the task is to use an input image, x, to classify defects, y. You have stored meta-data for your entire ML is such as which factory each image came from. Which of the following are reasonable uses of meta-data?
☐ As	an alternative to having to comment your code.
✓ Ke	eeping track of data provenance and lineage.
	Correct That's right! Meta-data will contain information about where the data come from and what processing steps were applied to it. This can be helpful when performing error analysis.
	another input provided to human labelers (in addition to the image x) to boost HLP. suggest tags or to generate insights during error analysis.
	Correct That's correct!