Congratulations! You passed!

Grade $\mathsf{received}\,90\%$

Latest Submission Grade 90%

1. Which of these statements do you agree with regarding structured vs. unstructured data problems?

To pass 90% or higher

Go to next item

1/1 point

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. It is generally easier for humans to label data and to apply data augmentation on structured data. It is generally easier for humans to label data on unstructured data, and easier to apply data augmentation on structured 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. Espeech recognition. Some labelers transcribe with "" (as in, "Um today's weather") whereas others do so no commas "," Human-level performance (HLP) is measured according to how well one transcriber agrees with ther. You work with the team and get everyone to consistently use commas "," What effect will this have on "? HLP will stay the same. HLP will decrease. It will increase. HLP will decrease. Correct That's right! Since the labels will be more consistent, the labelers will agree with each other more often, raising HLP. Ea a phone visual inspection problem. Suppose even a human inspector looking at an image cannot tell if there scratch. If however the same inspector were to look at the phone directly (rather than an image of the phone) they can clearly tell if there is a scratch. Your goal is to build a system that gives accurate inspection decisions	1/1 point
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the factory (not publish a paper). What would you do?	
Try to improve the consistency of the labels, y.	
Carefully measure HLP on this problem (which will be low) to make sure the algorithm can match HLP. Try to improve their imaging (camera/lighting) system to improve the quality or clarity of the input images,	
x. 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 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 camera to improve your system's performance.	
are building a system to detect cats. You ask labelers to please "use bounding boxes to indicate the position of ." Different labelers label as follows:	1/1 point
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5. You are building a visual inspection system. HLP is measured according to how well one inspector agrees with another. Error analysis finds:

correct
 That's right! Your hardworking labelers may interpret the ambiguous instructions differently and label the
 contains and your labelled data will improve!

 $\begin{picture}(60,0)\put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100}$

images differently. Improve your instructions, and your labelled data will improve!

What is the most likely cause of this? Ambiguous labeling instructions. O Labelers have not had enough coffee.

O Lazy labelers.

1/1 point

Type of defect Accuracy HLP % of data

1		ı		I	
Sc	ratch	95%	98%	50%	
Di	scoloration	90%	90%	50%	
had f	decide that it might be worth checto pick one to start with, which wo it is more promising to check (and discoloration defects, since HLP is consistency. It is more promising to check (and scratch defects. Since HLP is lower instructions that is affecting HLP. Correct That's right! HLP is lower for discolorations and the since HLP is lower for discolorations.	uld you pick? potentially improve) label chigher on scratch defects an potentially improve) label condiscoloration, it's possib	onsistency on scra nd thus it's more re onsistency on disc ele that there migh	tch defects than asonable to expect high oloration defects than t be ambiguous labelling	
	improving label consistency.				
	nplement the data iteration loop e set first, so that all development c				1/1 point
0					
_	False Correct Right on! Collecting and labelling possible.	g data is an iterative process	, get into the data i	teration loop as quickly as	
span	nave a data pipeline for product re n, (ii) makes predictions. An engin (ii) remains the same, what can w	eering team improves the sy	stem used for step	(i). If the trained model for	0 / 1 point
_	It's not possible to say - it may per It will definitely improve since the				
0	It will get worse because changing the later stages.		peline always resul	ts in worse performance of	
_	It will get worse because stage (ii)	is now experiencing data/co	ncept drift.		
8	Incorrect Close! This <i>could</i> happen - it real However, it's also possible that t			ow they affect the model.	
11/1		2.6(
_	t is the primary goal of building a F			oying.	1/1 point
	To build a robust deployment syst				
	To select the most appropriate ML To collect sufficient data to build a		nont.		
	Correct That's right! A proof of concept s			worth the time and effort	
	to develop the product.				
	ps tools can store meta-data to ke enance and lineage mean?	ep track of data provenance	and lineage. What	do the terms data	1/1 point
_	Data provenance refers the input x Data provenance refers to the sequ			and data lineage refers to	
_	where the data comes from. Data provenance refers data pipeli	ine, and data lineage refers t	o the age of the da	ta (i.e., how recently was it	
•	collected). Data provenance refers to where tl applied to it.	he data comes from, and dat	ta lineage the sequ	ence of processing steps	
\odot	Correct That's right!				
	mac 3 ngm.				
have	are working on phone visual inspe stored meta-data for your entire I wing are reasonable uses of meta-	ML system, such as which fac			1 / 1 point
	As another input provided to hum	an labelers (in addition to th	e image x) to boos	t HLP.	
_	To suggest tags or to generate insi	ghts during error analysis.			
	That's correct!				
	As an alternative to having to com Keeping track of data provenance				
_	Correct	and inicage.			
\odot	That's right! Meta-data will conta steps were applied to it. This can			m and what processing	