	example is adapted from a real production	application, but with details disguised	to protect confidentiality.	1/1
You a	are a famous researcher in the City of Peac	etopia. The people of Peacetopia have	a common characteristic: they are afraid of birds. To save them, yo	u
The (e to build an algorithm that will detect a	ny bird flying overPeacetopia and ale		
There	r goal is to build an algorithm able to classif re are a lot of decisions to make: /hat is the evaluation metric? low do you structure your data into train/de		as from Peacetopia.	
Metr The 0	cric of success City Council tells you that they want an algorians high accuracy	orithm that		
3. Ca	e: Having three evaluation metrics makes it th your team can iterate. True/False?	it can run in a small processor that the	e city will attach to many different security cameras.	
	False Correct			
• "W	r further discussions, the city narrows dowr We need an algorithm that can let us know a We want the trained model to take no more	a bird is flying over Peacetopia as accur	ately as possible."	1/1p
	We want the model to fit in 10MB of memore u had the three following models, which on Test Accuracy		Memory size	
0	98% Test Accuracy 97%	9 sec Runtime 3 sec	9MB Memory size 2MB	
	B: Test Accuracy 99%	Runtime 13 sec	Memory size 9MB	
0	Test Accuracy 97% Correct	Runtime 1 sec	Memory size 3MB	
		an 10 seconds you're good. So, you may	y simply maximize the test accuracy after you made sure the	
0 /	Accuracy, running time and memory size an acceptable. Accuracy is a satisficing metric; running time	re all satisficing metrics because you ha	ave to do sufficiently well on all three for your system to be netric.	1/1 p
•	Accuracy is an optimizing metric; running ti Accuracy, running time and memory size a	ime and memory size are a satisficing n	netrics.	
	<u>icturing your data</u>	to enlis	ts Which of the said	1/1 p
Befo	Train 9,500,000	Dev 250,000	Test 250,000	
0	Train 6,000,000 Train	Dev 3,000,000 Dev	Test 1,000,000 Test	
0	6,000,000 Train 3,333,334	1,000,000 Dev 3,333,333	3,000,000 Test 3,333,333	
) Correct Yes.			
Peac Thes	cetopia are so scared of birds that they volu	inteered to take pictures of the sky and n of images the City Council had origina	000 images, called the "citizens' data". Apparently the citizens of label them, thus contributing these additional 1,000,000 images. ally given you, but you think it could help your algorithm.	1/1p
sets. Is the	e following statement true or false?		oution is different from the dev and test sets, then this will not allow	,
	True False			
\odot	False is correct: Sometimes we'll need to	data that differs from the dev set may	lable, and its distribution may not be the same as the data that will still help the model improve performance on the dev set. What	
obje	ct because:		should add the 1,000,000 citizens' data images to the test set. You rest of the data (similar to the New York City/Detroit housing	1/1 p
			nal expense of evaluating models on the test set.	
	Correct The test set no longer reflects the distributi	ion of data (security cameras) you most	t care about.	
✓ You t	Correct train a system, and its errors are as follows	(error = 100%-Accuracy):		1/1 p
Tr	raining set error Dev set error			
	suggests that one good avenue for improvi	ing performance is to train a bigger net	4.0% 4.5% work so as to drive down the 4.0% training error. Do you agree?	
This	Suggests that one good avenue for improving the state of the shows your variance is highly specially shows because having 4.0% training error shows the state of	gher than your bias.	4.5%	
This	No, because this shows your variance is hig	gher than your bias. ows you have a high bias. than your variance.	4.5%	
This:	No, because this shows your variance is higher yes, because this shows your bias is higher No, because there is insufficient information. Correct	gher than your bias. Than your variance. In to tell.	4.5%	1/1p
You a	No, because this shows your variance is higher yes, because this shows your bias is higher No, because there is insufficient information. Correct	gher than your bias. Than your variance. In to tell. It of find out what is human-level perform	4.5% work so as to drive down the 4.0% training error. Do you agree?	1/1p
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