utonomou	ations! You passed!			Go	to nevt item
	d 93.33% To pass 80% or higher b Driving (Case Study)			Go	to next item
To help you practi	n Grade 93.33% The strategies for machine learning, in this week we'll p	present another scenario a	nd ask how you would act. W	e think this "simulator" of	1/1
working in a mach You are employed sign) and traffic sign	the learning project will give a task of what leading a response by a startup building self-driving cars. You are in chargnals (red and green lights) in images. The goal is to response to the edestrian crossing sign and red traffic lights	machine learning project co	ould be like! (stop sign, pedestrian crossi	ng sign, construction ahead	1/1
TOTAL PROPERTY OF THE PARTY OF			$\begin{bmatrix} 0 \\ 1 \end{bmatrix}$ "stop sign	" n crossing sign"	
		$y^{(i)} =$	0 "construct 1 "red traffic	ion ahead sign" light"	
	ed images are taken using the front-facing camera of		0 "green tra	fic light" most about doing well on.	
the same.	nt be able to get a much larger dataset off the interne				
	ays collecting more data using the front-facing camer ays training a basic model and see what mistakes it m		lerstand how much data pe	unit time you can collect.	
	ays getting the internet data, so that you understand ays checking what is human-level performance for th			ayes error.	
	in lecture, applied ML is a highly iterative process. If	you train a basic model an	d carry out error analysis (se	e what mistakes it makes)	
is to recognize wh	ect road signs (stop sign, pedestrian crossing sign, cor ch of these objects appear in each image. You plan to er, a softmax activation would be a good choice for th	o use a deep neural networ	k with ReLU units in the hide	len layers.	1/1
TrueFalse					
Correct Softmax wo present in e	ald be a good choice if one and only one of the possib ach image.	oilities (stop sign, speed bu	np, pedestrian crossing, gre	en light and red light) was	
	ut error analysis and counting up what errors the algo ully examine, one image at a time?	orithm makes. Which of the	ese datasets do you think yo	u should manually go	1/1
	on which the algorithm made a mistake				
● 500 images o	which the algorithm made a mistake				
	ages that the algorithm got wrong. Also, 500 is enoug ,000, which will take a long time.	h to give you a good initial;	sense of the error statistics.	There's probably no need	
• 100,000 labeled	ne data for several weeks, your team ends up with the images taken using the front-facing camera of your companies of roads downloaded from the internet.			F7	1/1
	els precisely indicate the presence of any specific roa	ad signs and traffic signals	or combinations of them. Fo	r example, $y^{(i)} = \begin{bmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 0 \end{bmatrix}$	
	ulti-task learning problem, you need to have all your	$y^{(i)}$ vectors fully labeled. I	one example is equal to	then the learning	
algorithm will not	oe able to use that example. True/False?				
● False ✓ Correct					
_	e lecture on multi-task learning, you can compute the	e cost such that it is not inf	uenced by the fact that som	e entries haven't been	
	data you care about contains images from your car's nd and download off the internet. How should you sp	-		tribution than the images	0/1
remaining im	aining set to be the 900,000 images from the internet ges will be split equally in dev and test sets.				
training set, 1 Choose the tr	0,000 for the dev set and 10,000 for the test set. Sining set to be the 900,000 images from the internet ages will be split equally in dev and test sets.				
training set, 2	0,000 images with the 900,000 images you found onlind 00,000 for the dev set and 200,000 for the test set.	ne. Shuffle everything. Split	the 1,000,000 images datas	et into 600,000 for the	
Incorrect Assume you've fin	ally chosen the following and				
Dataset:	Contains: 940,000 images randomly picked from (900,000 in	nternet images + 60,000	's front-facing camera	Error of the algorithm:	1/1
Training Training- Dev Dev	20,000 images randomly picked from (900,000 in images) 20,000 images randomly picked from (900,000 intimages) 20,000 images from your car's front-facing camera	ternet images + 60,000 car's		9.1% 14.3%	
Test	20,000 images from your car's front-facing camera 20,000 images from the car's front-facing camera thuman-level error on the road sign and traffic signal		nd 0.5%. Which of the follov	14.8%	
You have a la	ge avoidable-bias problem because your training erro	or is quite a bit higher than	the human-level error.		
	ge variance problem because your training error is qu				
✓ You have a la	ge data-mismatch problem because your model does	s a loc better on the training	g-dev set than on the dev se		
	n overfits the dev set because the error of the dev and		ne same training distribution	but that it has never seen	
Based on the table	from the previous question, a friend thinks that the t	training data distribution is	much easier than the dev/t	est distribution. What do you	1/1
	right. (I.e., Bayes error for the training data distribution wrong. (I.e., Bayes error for the training data distribut				
	cient information to tell if your friend is right or wron				
_	n does better on the distribution of data it trained on get a better sense, measure human-level error separa	*		distribution or if it really	
You decide to focu	s on the dev set and check by hand what are the erro	ors due to. Here is a table s	ummarizing your discoverie	:	1/1
Overall dev set Errors due to in	correctly labeled data			15.3% 4.1% 8.0%	
Errors due to o	nin drops stuck on your car's front-facing camera ther causes 8.0%, etc. are a fraction of the total dev set (not just e	avamples your algorithm m	islaheled). For evample, abo	2.2% 1.0%	
errors are due to the The results from t					
We recommend the	ere are subtle concepts to consider with this question at you spend time reading the feedback for this quiz, learning project.	to understand what issues	that you will want to consid	er when you are building	
	it dans and an house south in to add forms date. If form	gy data is very hard and co	stly to collect, it might not be	worth the team's effort.	
Circt start with	it depends on how easy it is to add foggy data. If foggiit is greater than the other error categories added tog	gether (8.0 > 4.1+2.2+1.0).			
			ry of error as this will make	the best use of the team's	
True because time.Correct correct: feed	it is greater than the other error categories added tog the sources of error that are least costly to fix.	prioritize the largest catego			
Correct correct: feed model train	the sources of error that are least costly to fix. It is the largest category of errors. We should always place. This is the correct answer. You should considered on this additional data.	prioritize the largest categor	data accessibility and poten	ial improvement of your	1/1
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