Selecting and Training a Model

Latest Submission Grade 100%

1.	Which of these is a more accurate description of a data-centric approach to ML development?	1 / 1 point
	Holding the neural network architecture fixed, work to improve the data to do well on the problem.	
	Holding the training data fixed, work to improve your neural network's architecture to do well on the problem.	
	Correct That's right! Data-centric means you focus your efforts on improving the data to raise the system's performance, while keeping the code fixed.	
2.	Say you have an algorithm that diagnoses illnesses from medical X-rays, and achieves high average test set accuracy. What can you now say with high confidence about this algorithm? Check all that apply.	1 / 1 point
	It does well even on rare classes of diseases.	
	Its diagnoses are roughly equally accurate on all genders and ethnicities, so we are confident it is not biased against any gender or ethnicity.	
	The system can be safely deployed in a healthcare setting.	
	None of the above.	
	Correct That's right! High average test set accuracy is a great achievement, but there is more work to be done to ensure the algorithm works well on real-world data, is fair, and performs well on rare classes of diseases.	

Create a training set of this example repeated 100 times to force the algorithm to

learn to fit this example well.

•	Debug the code/algorithm/hyperparameters to make it pass this sanity-check test first, before moving to larger datasets.
0	Train the algorithm on a larger dataset to help it to fit the data better.

Use data augmentation on this one audio clip to make sure the algorithm hears a

variety of examples of "today's weather" to fit this phrase better.

⊘ Correct

That's right! Something is clearly wrong with the implementation if the algorithm is unable to overfit to a single training example! Find the root cause, fix the problem, and then move onto larger datasets.