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Quiz 1



3/5 questions correct

You haven't passed yet. You need at least 4 questions correct to pass.

Review the material and try again! You have 3 retakes every 8 hours.

Review Related Lesson (/learn/practical-machine-learning/home/week/1)



Which of the following are components in building a machine learning algorithm?

Training and test sets Sorry, that's incorrect. Artificial intelligence Well done!

Statistical inference

Well done!

Deciding on an algorithm.

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Well done!		
✓	Machine learning	
Sor	ry, that's incorrect.	
/	2.	
accura	se we build a prediction algorithm on a data set and it is 100% ate on that data set. Why might the algorithm not work well if we a new data set?	
	We may be using bad variables that don't explain the outcome.v	
	We have used neural networks which has notoriously bad performance.	
	Our algorithm may be overfitting the training data, predicting both the signal and the noise.	
We	ll done!	
	We have too few predictors to get good out of sample accuracy.	
~	3.	
What a	are typical sizes for the training and test sets?	
	50% in the training set, 50% in the testing set.	
	0% training set, 100% test set.	
	80% training set, 20% test set	

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Well done!
90% training set, 10% test set
× 4.
What are some common error rates for predicting binary variables (i.e. variables with two possible values like yes/no, disease/normal, clicked/didn't click)?
Root mean squared error
Sorry, that's incorrect.
Median absolute deviation
Sorry, that's incorrect.
Accuracy
Well done!
R^2
Well done!
Correlation
Well done!

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Suppose that we have created a machine learning algorithm that predicts whether a link will be clicked with 99% sensitivity and 99% specificity. The rate the link is clicked is 1/1000 of visits to a website. If we predict the link will be clicked on a specific visit, what is the probability it will actually be clicked?

	50%	
\bigcirc	99.9%	
	9%	
Well done!		

