Congratulations! You passed!

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Go to next item

1. 1 / 1 point

In the context of machine learning, what is a diagnostic?

- This refers to the process of measuring how well a learning algorithm does on a test set (data that the algorithm was not trained on).
- An application of machine learning to medical applications, with the goal of diagnosing patients' conditions.
- A process by which we quickly try as many different ways to improve an algorithm as possible, so as to see what works.
- **A test that you run to gain insight into what is/isn't working with a learning algorithm.**

Correct
Yes! A diagnostic is a test that you run to gain insight into what is/isn't working with a learning algorithm, to gain guidance into improving its performance.

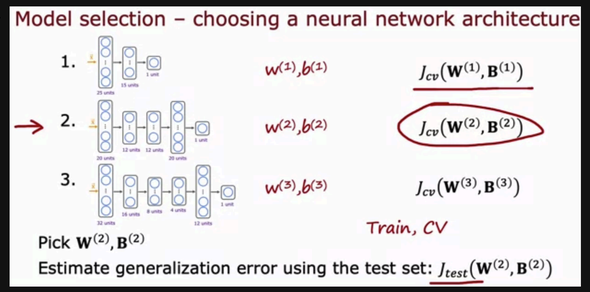
2. 1 / 1 point

True/False? It is always true that the better an algorithm does on the training set, the better it will do on generalizing to new data.

- True
- **False**

Correct
Actually, if a model overfits the training set, it may not generalize well to new data.

3. 1 / 1 point



For a classification task; suppose you train three different models using three different neural network architectures. Which data do you use to evaluate the three models in order to choose the best one?

- **The cross validation set**
- All the data -- training, cross validation and test sets put together.
- The training set
- The test set

Correct
Correct. Use the cross validation set to calculate the cross validation error on all three models in order to compare which of the three models is best.