Congratulations! You passed!

Grade received 100% **Latest Submission Grade** 100% **To pass** 80% or higher

Go to next item

1. 1 / 1 point

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

- ○ A process by which we quickly try as many different ways to improve an algorithm as possible, so as to see what works.
- ○ 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).
- ◉ A test that you run to gain insight into what is/isn't working with a learning algorithm.
- ○ An application of machine learning to medical applications, with the goal of diagnosing patients' conditions.

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.

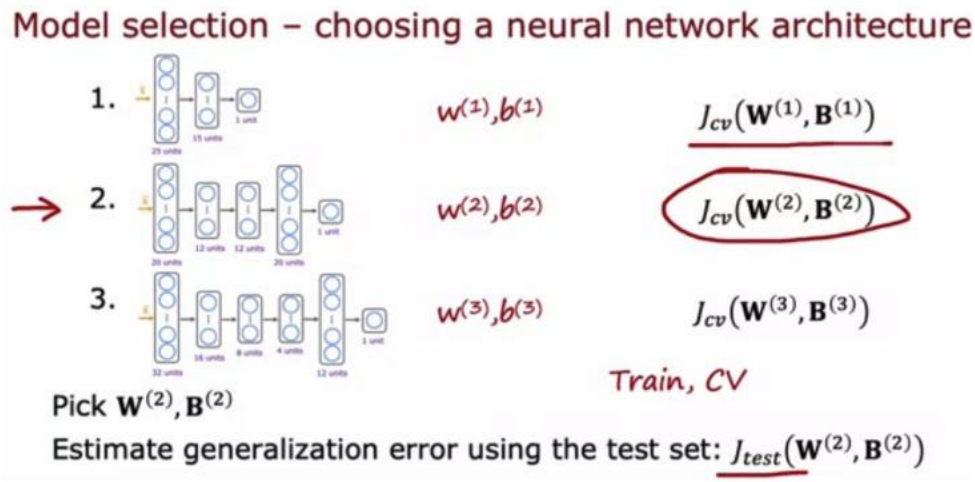
2. 1 / 1 point

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