

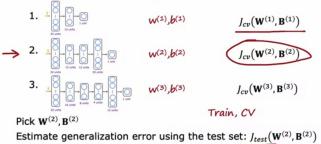
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1/1 point In the context of machine learning, what is a diagnostic? O An application of machine learning to medical applications, with the goal of diagnosing patients' A test that you run to gain insight into what is/isn't working with a learning algorithm. O This refers to the process of measuring how well a learning algorithm does on a test set (data that the O A process by which we quickly try as many different ways to improve an algorithm as possible, so as to see what works. **⊘** 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. False O True Actually, if a model overfits the training set, it may not generalize well to new data. 3. Model selection - choosing a neural network architecture 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?

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