## Ongratulations! You passed!

Grade received 100% To pass 80% or higher

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## Week 1 Quiz

Latest Submission Grade 100%

. What is the difference between traditional programming and Machine Learning?  Machine learning identifies complex activities such as golf, while traditional programming is better suited to simpler activities such as wa	1/1 point
in traditional programming, a programmer has to formulate or code rules manually, whereas, in Machine Learning, the algorithm automatically formulates the rules from the data.      Correct     Exactlyt Machine learning algorithms build a model based on sample data, known as 'training data', in	
order to make predictions or decisions without being explicitly programmed to do so.  What do we call the process of telling the computer what the data represents (i.e. this data is for walking, this data is	1/1 point
for running?  Programming the Data  Labelling the Data	1/1 point
Categorizing the Data Learning the Data	
Correct Yes! Labeling typically takes a set of unlabeled data and augments each piece of it with informative tags.	
What is a Dense layer?  An amount of mass occupying a volume  A layer of disconnected neurons  A single neuron  A layer of connected neurons	1/1 point
Correct Correct in Keras, dense is used to define a layer of connected neurons.	
How do you measure how good the current 'guess' is?     Using the Loss function     Training a neural network     Figuring out if you win or lose	1/1 point
Correct Absolutely! An optimization problem seeks to minimize a loss function.	
What does the optimizer do?  Decides to stop training a neural network  Generates a new and improved guess  Figures out how to efficiently compile your code  Measures how good the current guess is	1/1 point
○ Correct Nalled It! The optimizer figures out the next guess based on the loss function.	
What is Convergence?  The process of getting very close to the correct answer  An analysis that corresponds too closely or exactly to a particular set of data.  A dramatic increase in loss  A programming API for AI	1/1 point
Correct That's right! Convergence is when guesses get better and better closing to a 100% accuracy.	
What does model.fit do?  It trains the neural network to fit one set of values to another  It makes a model fit available memory  It determines if your activity is good for your body  It optimizes an existing model	1/1 point
<ul> <li>Correct         Correct The training takes place on the fit command.</li> </ul>	