Congratulations! You passed!

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1.	what is the difference between traditional programming and machine Learning?	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.	
	Machine learning identifies complex activities such as golf, while traditional programming is better suited to simpler activities such as walking.	
	Correct Exactly! 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.	
2.	What do we call the process of telling the computer what the data represents (i.e. this data is for walking, this data is for running)?	1/1 point
	Labelling the Data	
	O Programming the Data	
	O Learning the Data	
	Categorizing the Data	
	 Correct Yes! Labeling typically takes a set of unlabeled data and augments each piece of it with informative tags. 	

3.	What is a Dense layer?	1/1 point
	A layer of disconnected neurons	
	A layer of neurons fully connected to its adjacent layers	
	An amount of mass occupying a volume	
	○ A single neuron	
	○ Correct Correct! In Keras, dense is used to define this layer of connected neurons	
4.	How do you measure how good the current 'guess' is?	1/1 point
	O Figuring out if you win or lose	
	Training a neural network	
	Using the Loss function	
	Orrect Absolutely! An optimization problem seeks to minimize a loss function.	
5.	What does the optimizer do?	1/1 point
	Generates a new and improved guess	
	O Figures out how to efficiently compile your code	
	Measures how good the current guess is	
	O Decides to stop training a neural network	
	Correct Nailed it! The optimizer figures out the next guess based on the loss function.	

6.	What is Convergence?	1/1 point
	A programming API for AI An analysis that corresponds too closely or exactly to a particular set of data. The process of getting very close to the correct answer A dramatic increase in loss	
	○ Correct That's right! Convergence is when guesses get better and better closing to a 100% accuracy.	
7.	What does model.fit do?	1 / 1 point
	It trains the neural network to fit one set of values to another It optimizes an existing model	
	It determines if your activity is good for your body	
	It makes a model fit available memory	
	○ Correct Correct! The training takes place on the fit command.	