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Grade received 100% To pass 80% or higher

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Week 1 Quiz

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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.	t
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
	O Learning the Data	
	Categorizing the Data	
	Labelling the Data	
	O Programming 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
	O A layer of disconnected neurons	
	O A single neuron	
	O An amount of mass occupying a volume	
	A layer of connected neurons	
	Correct Correct! In Keras, dense is used to define a layer of connected neurons.	
4.	How do you measure how good the current 'guess' is?	1/1 point
	O Training a neural network	
	Using the Loss function	
	O Figuring out if you win or lose	
	 Correct Absolutely! An optimization problem seeks to minimize a loss function. 	

5.	What does the optimizer do?	1/1 point
	O 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	
	Orrect 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	
	The process of getting very close to the correct answer	
	A dramatic increase in loss	
	An analysis that corresponds too closely or exactly to a particular set of data.	
	 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
	O It optimizes an existing model	
	O It makes a model fit available memory	
	(in the neural network to fit one set of values to another	
	O It determines if your activity is good for your body	
	✓ CorrectCorrect! The training takes place on the fit command.	