## Congratulations! You passed!

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

Go to next item

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	
	Categorizing the Data		
	C Learning the Data		
	Programming the Data		
	<ul> <li>Labelling the Data</li> <li>Correct         Yes! Labeling typically takes a set of unlabeled data and augments each piece of it with informative tags.     </li> </ul>		
	rest Eabeting typically takes a sec of unlabeted data and augments each piece of it with mornative tags.		
3.	What is a Dense layer?	1/1 point	-
	O A layer of disconnected neurons		
	A layer of neurons fully connected to its adjacent layers		
	O A single neuron		
	O An amount of mass occupying a volume		
	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	
	Using the Loss function		
	O Training a neural network		-
	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	
	Generates a new and improved guess		
	Measures how good the current guess is		
	Figures out how to efficiently compile your code		
	O Decides to stop training a neural network		
	○ Correct		
	Nailed it! The optimizer figures out the next guess based on the loss function.		3

6.	What is Convergence?	1/1 point
	O A dramatic increase in loss	
	The process of getting very close to the correct answer	
	O A programming API for AI	
	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 makes a model fit available memory	
	It trains the neural network to fit one set of values to another	
	O It determines if your activity is good for your body	
	O It optimizes an existing model	
	○ Correct     Correct! The training takes place on the fit command.	