

Congratulations! You passed!

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1. What is the difference between traditional programming and Machine Learning?	1 / 1 point
O Machine learning identifies complex activities such as golf, while traditional programming is better suited to simpler activities such as walking.	
• 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 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
O Programming the Data	
O Categorizing the Data	
Labelling the Data	
O Learning 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 single neuron	
A layer of disconnected neurons	
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
Using the Loss function	
O Figuring out if you win or lose	
O Training a neural network	
 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	
Measures how good the current guess is	
Figures out how to efficiently compile your code	
 Correct Nailed it! The optimizer figures out the next guess based on the loss function. 	

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