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Week 1 Quiz

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| Latest Subinission Grade 100 /0 | | |
|---------------------------------|--|-------------|
| 1. | What is the difference between traditional programming and Machine Learning? | 1/1 point |
| | 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 | |
| | Categorizing the Data | |
| | Labelling the Data | |
| | C 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 |
| | A single neuron | |
| | A layer of disconnected neurons | |
| | An amount of mass occupying a volume | |

| | A layer of connected neurons | |
|----|--|-------------|
| | 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 |
| | Training a neural network | |
| | Figuring out if you win or lose | |
| | Using the Loss function | |
| | Correct Absolutely! An optimization problem seeks to minimize a loss function. | |
| | | |
| 5. | What does the optimizer do? | 1 / 1 point |
| | Measures how good the current guess is | |
| | Figures out how to efficiently compile your code | |
| | O Decides to stop training a neural network | |
| | Generates a new and improved guess | |
| | Correct Nailed it! The optimizer figures out the next guess based on the loss function. | |
| | | |
| 6. | What is Convergence? | 1 / 1 point |
| | An analysis that corresponds too closely or exactly to a particular set of data. | |
| | A dramatic increase in loss | |
| | A programming API for AI | |
| | The process of getting very close to the correct answer | |
| | Correct That's right! Convergence is when guesses get better and better closing to a 100% accuracy. | |

| 7. | What does model.fit do? |
|----|--|
| | O It determines if your activity is good for your body |
| | It trains the neural network to fit one set of values to another |
| | O It makes a model fit available memory |
| | O It optimizes an existing model |
| | Correct Correct! The training takes place on the fit command. |

1 / 1 point