**1.**

Question 1

What is the difference between traditional programming and Machine Learning?

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.

**2.**

Question 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 point

Programming the Data

Categorizing the Data

Labelling the Data

Learning the Data

**3.**

Question 3

What is a Dense layer?

1 point

A single neuron

An amount of mass occupying a volume

A layer of neurons fully connected to its adjacent layers

A layer of disconnected neurons

**4.**

Question 4

How do you measure how good the current ‘guess’ is?

1 point

Figuring out if you win or lose

Using the Loss function

Training a neural network

**5.**

Question 5

What does the optimizer do?

1 point

Generates a new and improved guess

Decides to stop training a neural network

Measures how good the current guess is

Figures out how to efficiently compile your code

**6.**

Question 6

What is Convergence?

1 point

The process of getting very close to the correct answer

A programming API for AI

A dramatic increase in loss

An analysis that corresponds too closely or exactly to a particular set of data.

**7.**

Question 7

What does model.fit do?

1 point

It makes a model fit available memory

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