What is the difference between traditional programming and Machine Learning?

- **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.

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)?

- Categorizing the Data
- Programming the Data
- Learning the Data
- **Labelling the Data**

What is a Dense layer?

- A single neuron
- A layer of disconnected neurons
- An amount of mass occupying a volume
- **A layer of neurons fully connected to its adjacent layers**

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

- Training a neural network
- Figuring out if you win or lose
- **Using the Loss function**

What does the optimizer do?

- **Generates a new and improved guess**
- Figures out how to efficiently compile your code
- Measures how good the current guess is
- Decides to stop training a neural network

What is Convergence?

- 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**

What does model.fit do?

- It determines if your activity is good for your body
- It optimizes an existing model
- **It trains the neural network to fit one set of values to another**
- It makes a model fit available memory