

# Week 1 Quiz

TOTAL POINTS 8

1. The diagram for traditional programming had Rules and Data In, but what came out?

1 point

- ☒ Binary
- ☐ Bugs
- ☒ Answers
- ☐ Machine Learning

2. The diagram for Machine Learning had Answers and Data In, but what came out?

1 point

- ☐ Models
- ☒ Rules
- ☐ Bugs
- ☐ Binary

3. When I tell a computer what the data represents (i.e. this data is for walking, this data is for running), what is that process called?

1 point

- ☐ Categorizing the Data
- ☐ Programming the Data
- ☒ Labelling the Data
- ☐ Learning the Data

4. What is a Dense?

1 point

- ☒ A layer of connected neurons
- ☐ A single neuron
- ☐ Mass over Volume
- ☐ A layer of disconnected neurons

5. What does a Loss function do?

1 point

- ☐ Decides to stop training a neural network
- ☐ Figures out if you win or lose
- ☐ Generates a guess
- ☒ Measures how good the current 'guess' is

6. What does the optimizer do?

1 point

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

7. What is Convergence?

1 point

- ☐ A programming API for AI
- ☒ The process of getting very close to the correct answer
- ☐ The bad guys in the next 'Star Wars' movie
- ☐ A dramatic increase in loss

8. What does model.fit do?

1 point

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