

✓ **Congratulations! You passed!**

Grade received **100%** Latest Submission Grade **100%** To pass 80% or higher

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1. What is the resolution of the 70,000 images from the Fashion MNIST dataset?

1 / 1 point

- ☒ 28x28 Greyscale
- ☐ 28x28 Color
- ☐ 100x100 Color
- ☐ 82x82 Greyscale

✓ **Correct**
Spot on!

2. Why are there 10 output neurons in the Neural Network used as an example for the Computer Vision Problem?

1 / 1 point

- ☒ There are 10 different labels
- ☐ To make it train 10x faster
- ☐ To make it classify 10x faster
- ☐ Purely arbitrary

✓ **Correct**
Exactly! There are 10 output neurons because we have 10 classes of clothing in the dataset. These should always match.

3. What does Relu do?

1 / 1 point

- ☒ It only returns x if x is greater than zero
- ☐ It returns the negative of x
- ☐ For a value x, it returns 1/x
- ☐ It only returns x if x is less than zero

✓ Correct

Correct! The rectifier or ReLU (Rectified Linear Unit) activation function returns x if x is greater than zero.

4. Why do you split data into training and test sets?

1 / 1 point

- ☐ To make testing quicker
- ☒ To test a network with previously unseen data
- ☐ To make training quicker
- ☐ To train a network with previously unseen data

✓ Correct

Nailed it! Splitting the data into training and test set allows you to test the network with unseen data.

5. True or False: The on_epoch_end function sends a logs object with lots of great information about the current state of training at the start of every epoch

1 / 1 point

- ☒ False
- ☐ True

✓ Correct

Absolutely! The function activates at the end of every epoch

6. Why do you set the callbacks= parameter in your fit function?

1 / 1 point

- ☐ So that the training loops performs all epochs
- ☐ Because it accelerates the training
- ☒ So, on every epoch you can call back to a code function

✓ Correct

That's right! You can have it check the metrics and stop the training.