### Example assessment questions for model deployment on Arduino

Question

You collect raw data from a 3-axis accelerometer for a period of 1 second at a sample rate of 100 Hz. Your feature extraction method is to compute the root mean square (RMS) of all of the values in each axis. How many dimensions is your feature set for one sample? Your answer should be a whole, positive number.

Answer: 3

Question

The features you extracted during the training process must have the same number of dimensions as the features you extract during inference.

1. **True**
2. False

Question

Your machine learning model is a neural network that ends with the softmax function, and you have trained it to predict the label among 5 different classes. How many outputs does your model have?

Answer: 5

Question

After performing inference, the outputs of the softmax function should always add up to 1.0.

1. **True**
2. False

Question

After performing inference, your model outputs 5 probabilities, each pertaining to the probability or confidence rating of each class. Finding the lowest probability will give you which class the model is predicting that the data belongs to.

1. True
2. **False**

Explanation: You should identify the highest probability to figure out which class was predicted.