

1/1 point (graded)

What is "Classification" in Machine Learning?

- ☐ Mapping a group of inputs to discrete outputs
- ☐ Classifying an input to a given set of categories
- ☐ Predicting labels for input images
- ☒ All of the above



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Data Collection

1/1 point (graded)

What are the key points to keep in mind when collecting image data?

- ☐ Try to provide different backgrounds so that model learns essential features
- ☐ Vary the light settings, so that model learns color variance.
- ☐ Collect the data with minimum labeling errors so that the data set will have less outliers and noise.
- ☒ All of the above



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What are the steps followed in the Classification Project?

- ☐ Train Model->Collect Data->Live Demonstration
- ☒ Collect Data->Train Model->Live Demonstration
- ☐ Live Demonstration->Train Data->Collect Data
- ☐ None of the above



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Framework

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Which Deep Learning Framework was used to train the classification model?

- ☐ TensorFlow
- ☐ TensorRT
- ☒ PyTorch
- ☐ MXNET
- ☐ None of the above



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Data Sets

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We used a PyTorch provided pre-trained ResNet-18 architecture. What dataset was ResNet-18 pre-trained on?

☐ COCO

 ImageNet

☐ MNIST

 CIFAR-100

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CATEGORIES variable

1/1 point (graded)

There is a global variable named `CATEGORIES` in the notebook. If we add a new category to this list, how must the output dimension of the neural network change for this classification task?

☐ The output dimension will stay the same

- ☒ The output dimension will increase by 1

☐ The output dimension will increase by 2

☐ The output dimension will increase by 4



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☐ The output dimension will stay the same

☒ The output dimension will increase by 1

☐ The output dimension will increase by 2

☐ The output dimension will increase by 4

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☐ Stochastic Gradient Descent

☐ Averaged Stochastic Gradient Descent

☒ Adam

☐ AdaGrad

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