Images as Visual Data

Quiz, 3 questions

3/3 points (100%)

Congratulations! You passed!

Next Item

1 / 1 point

1.
What are the **two** critical components that an image dataset must have before we can train supervised ML models with it?

- [ ] images must have color (RGB channel layers)

Un-selected is correct

- [ ] image pixel values

Correct

- [ ] labels

Correct

- [ ] TPUs

Un-selected is correct

- [ ] CNNs

Un-selected is correct

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1 / 1 point

2.
How many channels do typical RGB JPEG images have? Ignore any opacity/alpha channels

Four - one for Red, one for Blue, one for Green, one for Greyscale

Three - one for Greyscale, one for RGB, one for CMYK

Three - one for Red, one for Blue, one for Green

Correct

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1 / 1 point

3.
Image models can be applied to which of these types of data?

Customer satisfaction survey

Un-selected is correct

Video

Correct
Videos can be broken done frame-by-frame and image models can be applied to these frames. This can be extremely effective. For an example, see:
https://static.googleusercontent.com/media/research.google.com/en//pubs/archive/42455.pdf

Audio signals represented as spectrograms

Correct
Typically, we think of audio signals as one-dimensional. However, audio signals can be represented by spectrograms, and treated as images for machine learning purposes. See:
http://danielnouri.org/notes/2014/01/10/using-deep-learning-to-listen-for-whales/

Traffic cameras

Correct
Traffic cameras capture images.

Remote sensing images

Correct
Remote sensing images do not have the traditional RGB channels, but even though the depth is not 3, the same ML methods can be applied to those images. For an example, see:
https://arxiv.org/pdf/1508.00092.pdf

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