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SAS Viya Natural Language Processing and Computer Vision

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Question: 1

Which statement regarding convolutional layers best explains why these models help classify images in a variety of orientations?

Response:

- A. The filters have a width and a height.
- B. They are equivariant to translation.
- C. A network can have multiple convolutional layers.
- D. They capture edges.

Answer: B

Question: 2

The output for a particular neuron in the hidden layer is -0.001. What activation function is used in this hidden layer?

Response:

- A. ReLU
- B. TanH
- C. Sigmoid
- D. Softmax

Answer: B

Question: 3

Which statement is FALSE when you use dITune to tune the hyperparameters of CNN?

Response:

- A. It tunes model architecture
- B. It tunes miniBatchSize.
- C. It tunes learning rate.
- D. It tunes momentum rate.

Answer: A

Question: 4

What matches the rule: (ORDDIST_7, "not", "bad", "road")?

Response:

- A. The road was bad last week but should not be closed now.
- B. The reason was not that the hotel was on a bad road since it was accessible.
- C. It was actually not too bad last week but the road may be closed now.
- D. The road should not be too bad since it was open yesterday.

Answer: C

Question: 5

When scoring new images with a neural network using dIScore, which statement is TRUE about the weights?

Response:

- A. The weights change due to backpropagation.
- B. The weights do not change.
- C. The weights change due to covariate shift of the distribution of new images.
- D. The weights change only when there is a new image that is significantly different from the training images.

Answer: B

Question: 6

A documents data set has a document ID, a text variable, and 3 category variables. There is a total of 13 topics. A unique ID (__uniqueid__) has been added to the output data set. How many columns are in the output data set obtained from the results window of the Topics node?

Response:

- A. 29
- B. 19
- C. 32
- D. 16

Answer: C

Question: 7

What is a reason for using a small training dataset for an image classification task?

Response:

- A. Small datasets do not have to be partitioned.
- B. Classification networks work well with small datasets.
- C. To prevent over fitting.
- D. To ensure the network is capable of learning.

Answer: D

Question: 8

The output CAS table generated by running the loadImages action contains the binary images in which of the following columns?

Response:

- A. _path_
- B. _jpg_
- C. _binary_
- D. _image_

Answer: D



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