

Day-3 Quiz

Total points 6/10 ?

All questions are mandatory and carries 1 mark each

The respondent's email (01117711623_ml@vipstc.edu.in) was recorded on submission of this form.

✗ 7. In a CNN, what is a filter (also called a kernel)? *

0/1

- ☐ a) A layer that connects two neurons
- ☐ b) A mathematical operation used to apply a transformation to input data
- ☐ c) A function that normalizes the input data
- ☒ d) A parameter that is learned during training ✗

Correct answer

- ☒ b) A mathematical operation used to apply a transformation to input data

Roll Number *

01117711623



✗ 1. What is the primary function of a convolutional layer in a CNN? *

0/1

- ☐ a) To reduce the spatial dimensions of the input
- ☐ b) To detect patterns in the input data
- ☒ c) To activate neurons in the network
- ☐ d) To combine features from different layers

✗

Correct answer

- ☒ b) To detect patterns in the input data

✓ 4. What is the main idea behind transfer learning? *

1/1

- ☐ a) Training a model from scratch using a large dataset
- ☒ b) Using knowledge gained from one task to improve learning on a different but related task ✓
- ☐ c) Using pre-trained models for image classification only
- ☐ d) Using data augmentation techniques to generate new training samples

✓ 9. What does the term "stride" refer to in a convolutional layer? *

1/1

- ☐ a) The amount by which the input image is resized
- ☐ b) The number of filters used in the convolution
- ☒ c) The step size by which the filter moves across the input image ✓
- ☐ d) The activation function applied to the output of the convolution



Name *

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✓ 10. What is the primary goal of the dropout technique in training CNNs? * 1/1

- ☐ a) To increase the size of the input data
- ☒ b) To reduce overfitting by randomly setting certain activations to zero during training ✓
- ☐ c) To speed up the training process by reducing the number of layers
- ☐ d) To normalize the data during training

✓ 5. What is "padding" in the context of CNNs? * 1/1

- ☐ a) Adding extra layers to the network
- ☐ b) Increasing the size of the image before feeding it into the network
- ☒ c) Adding zeros around the input image to maintain output size after convolution ✓
- ☐ d) Normalizing the input data



✗ **6. Which of the following is NOT a typical use of Convolutional Neural Networks?** *0/1

- ☐ a) Image classification
- ☒ b) Natural language processing ✗
- ☐ c) Object detection
- ☐ d) Time series forecasting

Correct answer

- ☒ d) Time series forecasting

✓ **2. What is the purpose of the pooling layer in a CNN?** * 1/1

- ☐ a) To increase the spatial dimensions of the input
- ☐ b) To detect edges in the input image
- ☒ c) To downsample the input and reduce dimensionality ✓
- ☐ d) To introduce non-linearity into the network



✗ **8. What is the primary difference between a fully connected layer and a convolutional layer in a CNN?** *0/1

- ☐ a) The fully connected layer performs a filtering operation, while the convolutional layer performs a matrix multiplication.
- ☐ b) The convolutional layer uses fewer parameters than the fully connected layer.
- ☒ c) The fully connected layer detects local features, while the convolutional layer detects global features. ✗
- ☐ d) The fully connected layer is used for classification, while the convolutional layer is used for regression.
- ☐ Option 5

Correct answer

- ☒ b) The convolutional layer uses fewer parameters than the fully connected layer.

✓ **3. Which of the following is a commonly used activation function in CNNs?** *1/1

- ☐ a) Sigmoid
- ☐ b) Tanh
- ☒ c) ReLU
- ☐ d) Softmax



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