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Graded Quiz • 50 min

Due Oct 23, 11:59 PM UTC

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✓ **Congratulations! You passed!**

Grade received 80%

The Basics of ConvNets

Quiz • 50 min

To pass 80% or higher

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Due   Oct 23, 11:59 PM UTC
Attempts   3 every 24 hours

1. What do you think applying this filter to a grayscale image will do?   **1 / 1 point**

$$\begin{bmatrix} -1 & -1 & 2 \\ -1 & 2 & 1 \\ 2 & 1 & 1 \end{bmatrix}$$

✓ Receive grade

To Pass

○ Detect vertical edges.

Your gr

80% ⊙ Detect 45-degree edges.

○ Detecting image contrast.

Vi

We keep ○ Detect horizontal edges.

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⊘ **Correct**
Correct. Notice that there is a high delta between the values in the top left part
and the ones in the bottom right part. When convolving this filter on a
grayscale image, the edges forming a 45-degree angle with the horizontal will
be detected.