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The Basics of ConvNets

Graded Quiz • 50 min

coursera

Due Oct 23, 11:59 PM UTC

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

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

- Detect vertical edges.
- Detect 45-degree edges.
- Detecting image contrast.
- 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.