Solution: Pooling Intuition

Solution

The correct answer is **decrease the size of the output** and **prevent overfitting**. Preventing overfitting is a consequence of reducing the output size, which in turn, reduces the number of parameters in future layers.

Recently, pooling layers have fallen out of favor. Some reasons are:

- Recent datasets are so big and complex we're more concerned about underfitting.
- Dropout is a much better regularizer.
- Pooling results in a loss of information. Think about the max pooling operation as an example. We only keep the largest of *n* numbers, thereby disregarding *n-1* numbers completely.

NEXT