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the top convolutional layer as input in vector form ( $6 \cdot 6 \cdot 256 = 9216$  dimensions). The final layer is a  $C$ -way softmax function,  $C$  being the number of classes. All filters and feature maps are square in shape.

A network of perceptrons, cont. Notice that the network of nodes I have shown only sends signals in one direction. This is called a feed-forward network. These are by far the most well-studied types of networks, though we will (hopefully) have a chance to talk about recurrent neural networks (RNNs) that allow for loops in the network.

Architecture of a traditional CNN Convolutional neural networks, also known as CNNs, are a specific type of neural networks that are generally composed of the following layers: The convolution layer and the pooling layer can be fine-tuned with respect to hyperparameters that are described in the next sections.

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26/12/2018 · Recall that the equation for one forward pass is given by:  $z^{[1]} = w^{[1]} * a^{[0]} + b^{[1]}$   $a^{[1]} = g(z^{[1]})$  In our case, input ( $6 \times 6 \times 3$ ) is  $a^{[0]}$  and filters ( $3 \times 3 \times 3$ ) are the weights  $w^{[1]}$ . These activations from layer 1 act as the input for layer 2, and so on. Clearly, the number of parameters in case of convolutional neural networks is ...

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