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The most widely used API is Python and you will implementing a convolutional neural network using Python API in this tutorial. The name TensorFlow is derived from the operations, such as adding or multiplying, that artificial neural networks perform on multidimensional data arrays.

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The Convolutional Neural Network gained popularity through its use with image data, and is currently the state of the art for detecting what an image is, or what is contained in the image. The basic CNN structure is as follows: Convolution -> Pooling -> Convolution -> Pooling -> Fully Connected Layer -> Output

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Description. This is the 3rd part in my Data Science and Machine Learning series on Deep Learning in Python. At this point, you already know a lot about neural networks and deep learning, including not just the basics like backpropagation, but how to improve it using modern techniques like momentum and adaptive learning rates.

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Python Image Recognizer with Convolutional Neural Network. The concept of a deep learning model is to use outputs from the previous layer as inputs for the successive layer. The model starts learning from the first layer and use its outputs to learn through the next layer. Eventually, the model goes "deep" by learning layer after layer in order to produce the final outcome.

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The fully connected layer is your typical neural network (multilayer perceptron) type of layer, and same with the output layer. In the next tutorial, we're going to create a Convolutional Neural Network in TensorFlow and Python. The next tutorial: Convolutional Neural Network CNN with TensorFlow tutorial

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