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Network gained popularity  
through its use with image  
data, and is currently the state  
of the art for detecting what an



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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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technique for current visual

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Convolutional Neural Networks are very dependent on the size and quality of the training data. Given a well-prepared dataset, Convolutional Neural Networks are capable of surpassing humans at visual recognition

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build and understand “, not just

“how to use”. Anyone can learn

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“remembering facts”, it's about

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Network is different: they have

Convolutional Layers. On a fully

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connected layer, each neuron's output will be a linear transformation of the previous layer, composed with a non-linear activation function (e.g., ReLu or Sigmoid ).

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(CNNs) are used primarily to

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inspired variants of MLPs, they  
have different kinds of layers  
and each different layer works  
different than the usual MLP

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Network in Python In today's

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and the Keras deep learning  
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tl;dr Convolutional Neural

Networks (CNN) are used for  
the majority of applications in



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computer vision. You can find them almost everywhere. They are used for image and video classification and regression, object detection, image segmentation, and even playing Atari games.

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architecture was first  
introduced by LeCun et al. in  
their 1998 paper, Gradient-  
Based Learning Applied to  
Document Recognition.

*LeNet - Convolutional Neural*

*Page 94/96*

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tl;dr Convolutional Neural

Networks (CNN) are used for

the majority of applications in

computer vision. You can find

them almost everywhere. They

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are used for image and video classification and regression, object detection, image segmentation, and even playing Atari games.