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*on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy.. IBM has a rich history with machine learning. One of its own, Arthur*

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*dropout (Srivastava et al., 2014),  
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*Szegedy, 2015) or Cutout ...*

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*nevertheless, the core skeleton is the following: So we have our inputs ( $x$ ), we take the weighted sum of them (with weights equal to  $w$ ), pass it through an activation function  $f(\cdot)$*

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*and, voilà , we obtain our output.*

**Deep Learning Tutorial: Neural**

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*24/4/2021 · Deep neural network:  
Deep neural networks have more  
than one layer. For instance, Google  
LeNet model for image recognition*



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*counts 22 layers. Nowadays, deep learning is used in many ways like a driverless car, mobile phone, Google Search Engine, Fraud detection, TV,*

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*and so on.*

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*enough to provide a goal and many examples of how to achieve it in practice. The network will not give the rules governing a specific phenomenon but will provide a*

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*solution ...*

**Convolutional neural networks: an**

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## **overview and application ...**

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*tasks, is attracting interest across a variety of domains, including radiology. CNN is designed to automatically and adaptively learn spatial hierarchies of features*

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*through backpropagation by using  
multiple building blocks, such as*



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*convolution layers, pooling layers ...*

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