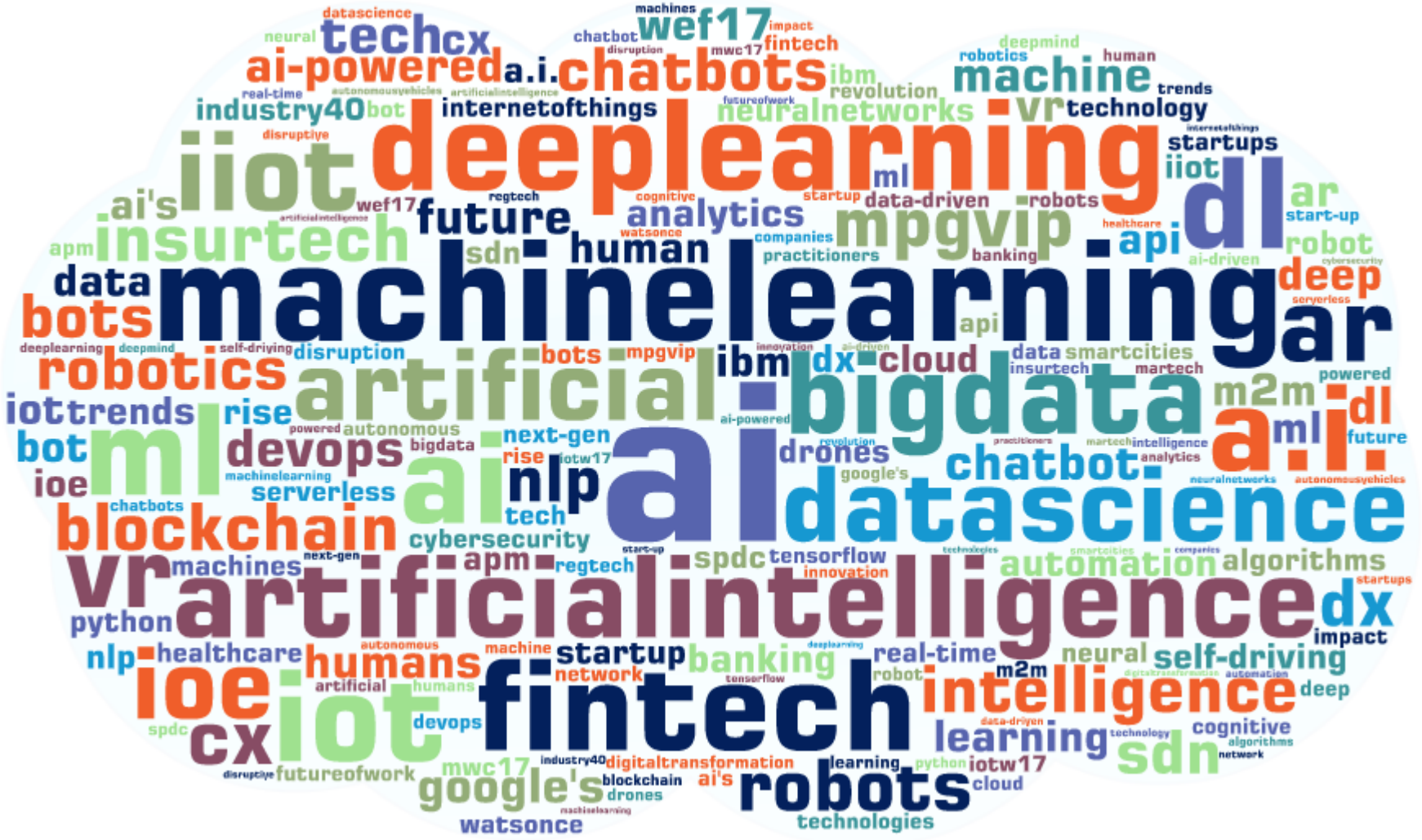

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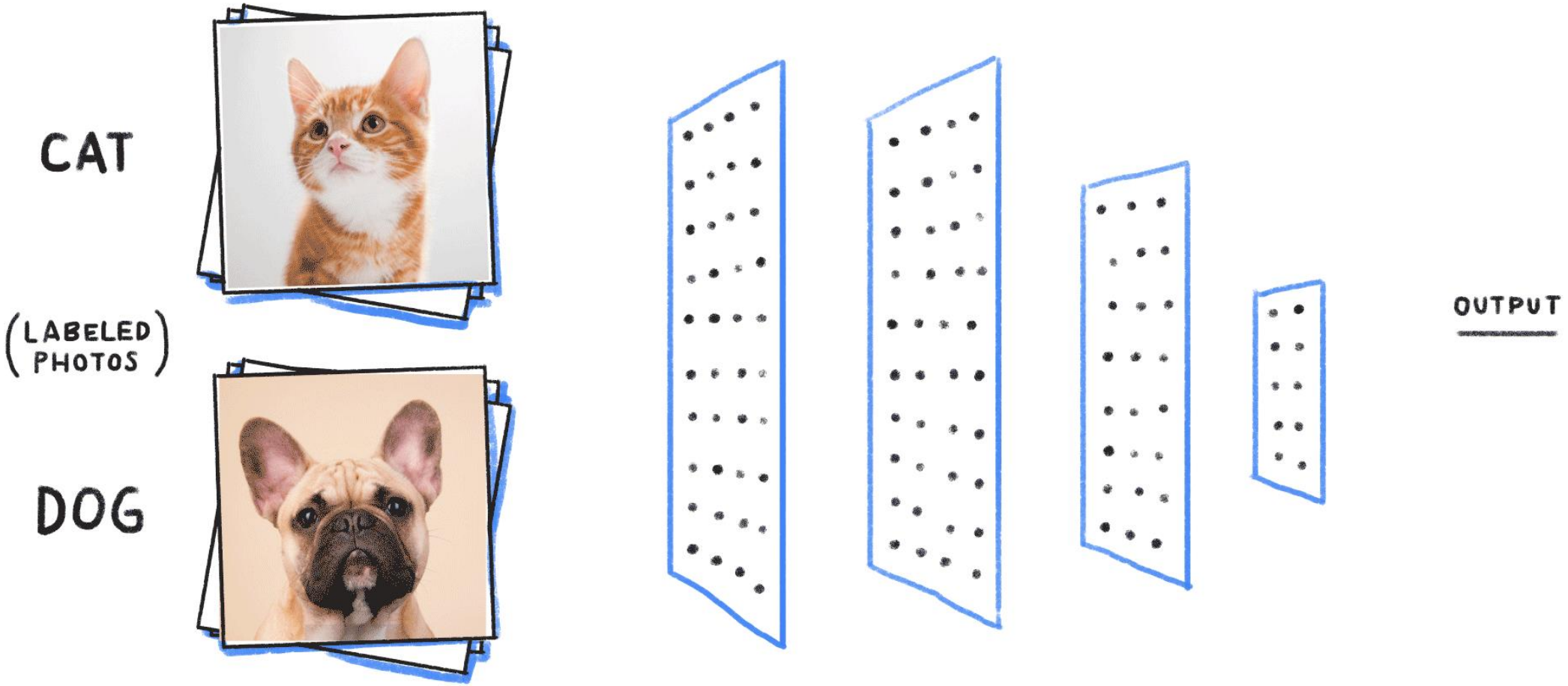

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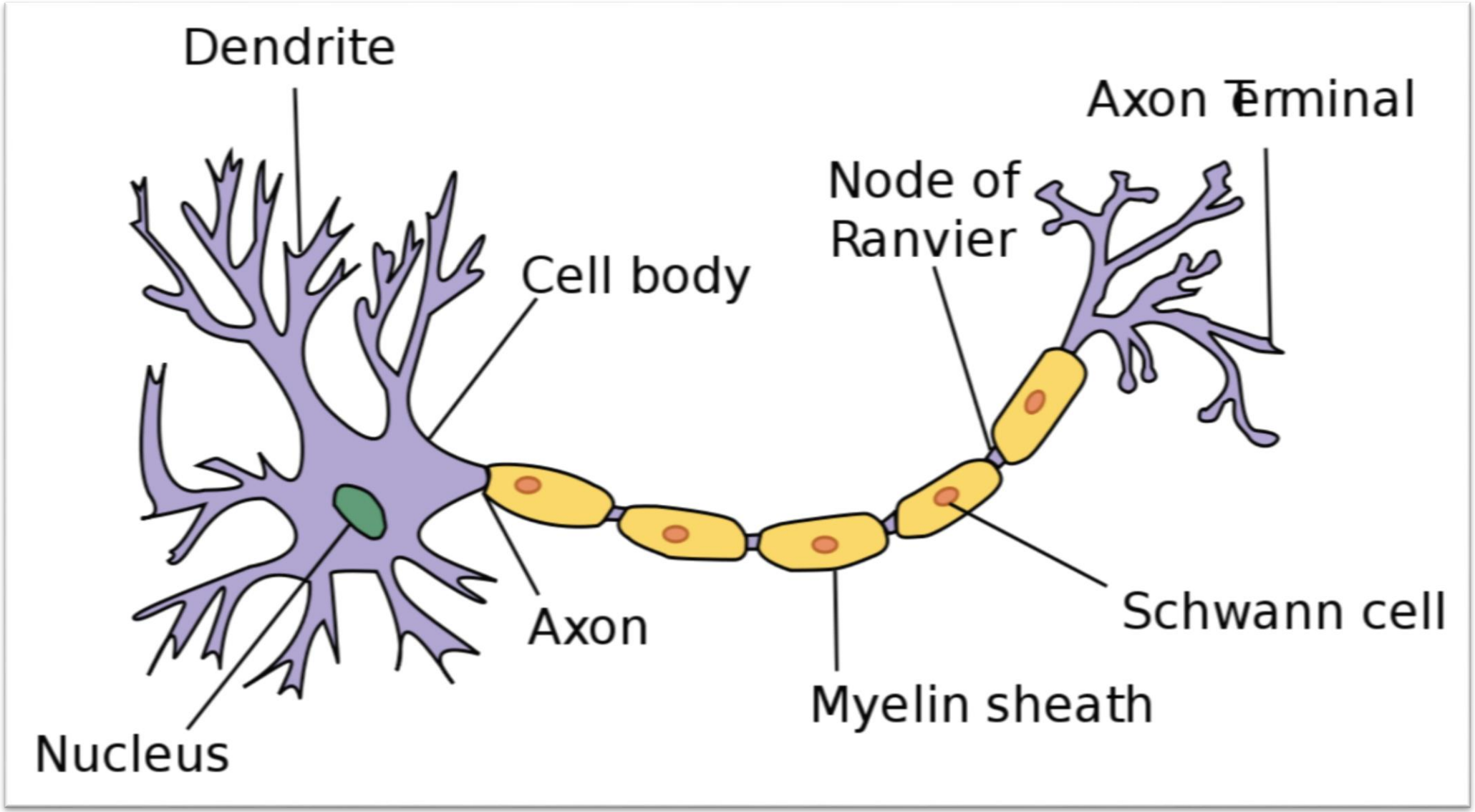
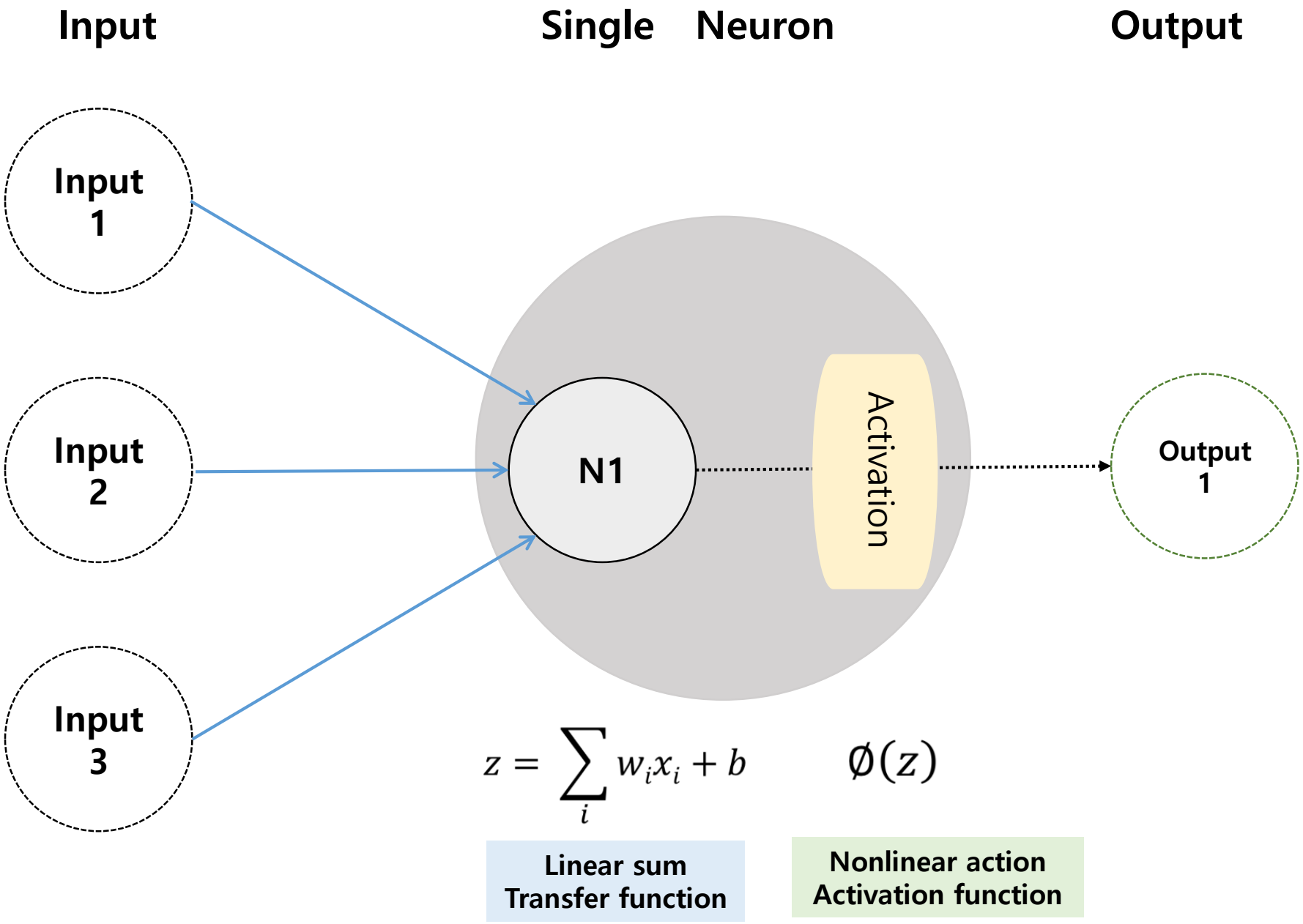
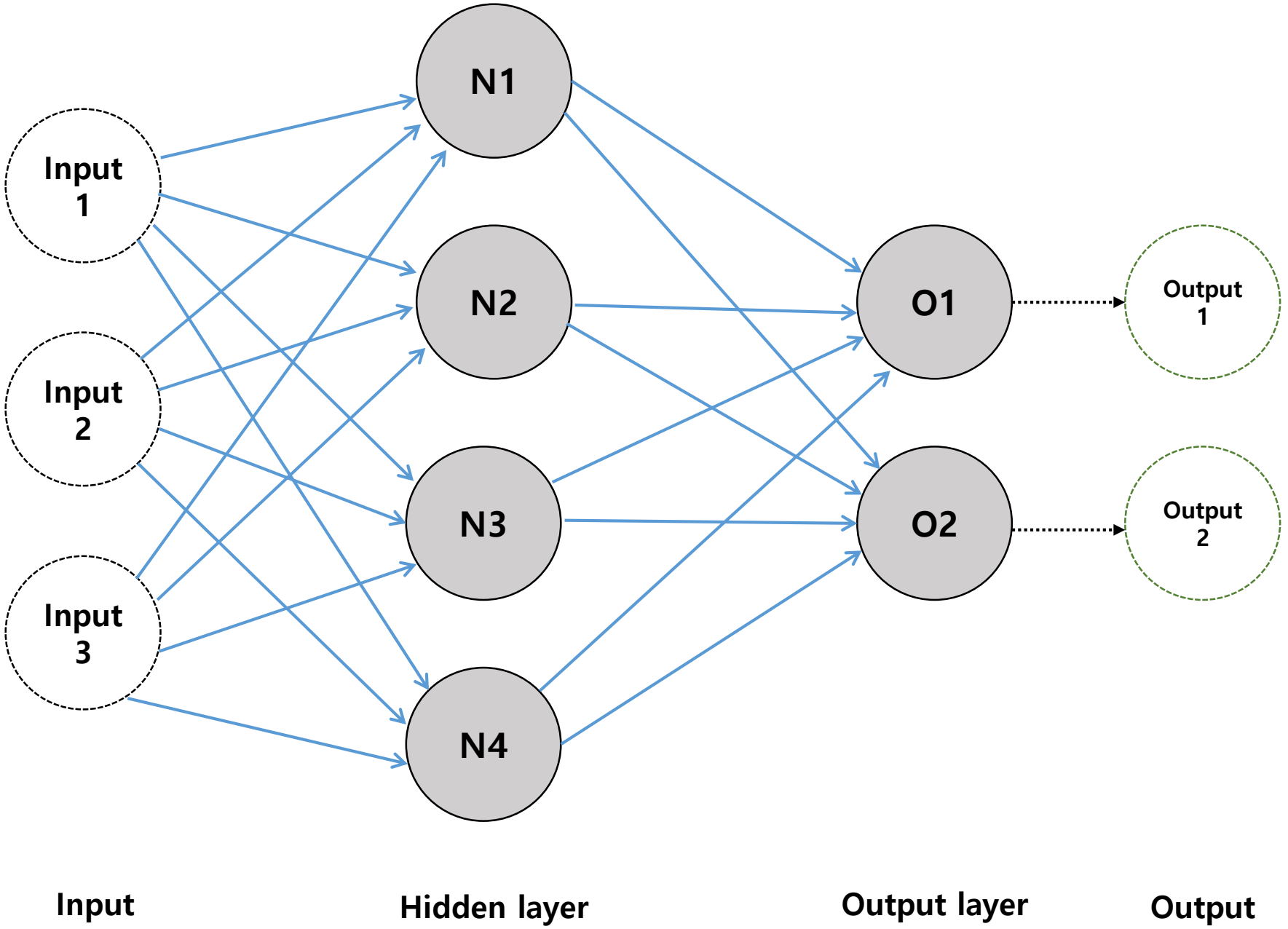
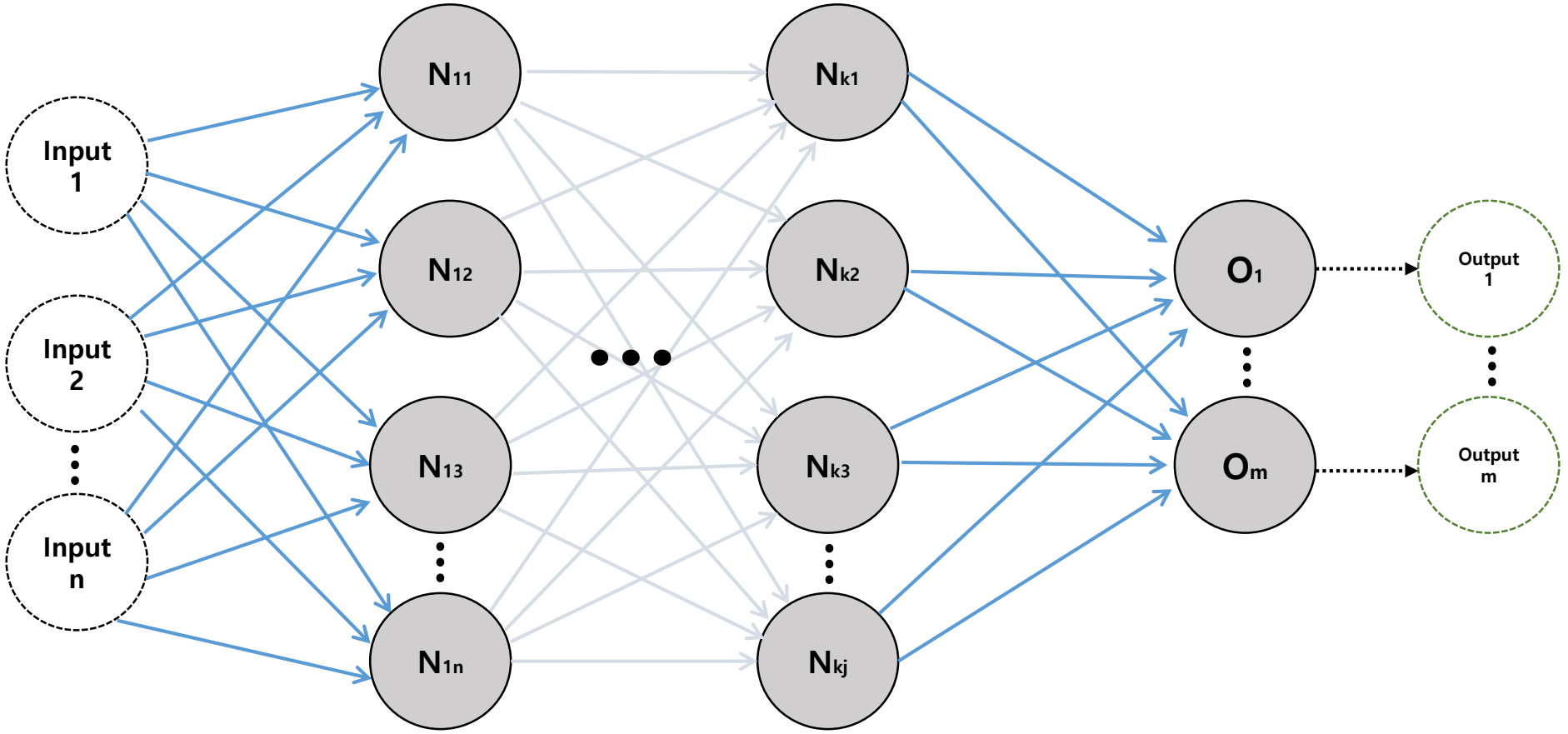

Dendrite
Axon Terminal
Node of Ranvier
Cell body
Axon
Schwann cell
Myelin sheath
Nucleus


Input
Single Neuron
Output
Input 1
Input 2
Input 3
N1
Activation
Output 1
$z = \sum_i w_i x_i + b$
$\emptyset(z)$
Linear sum
Transfer function
Nonlinear action
Activation function

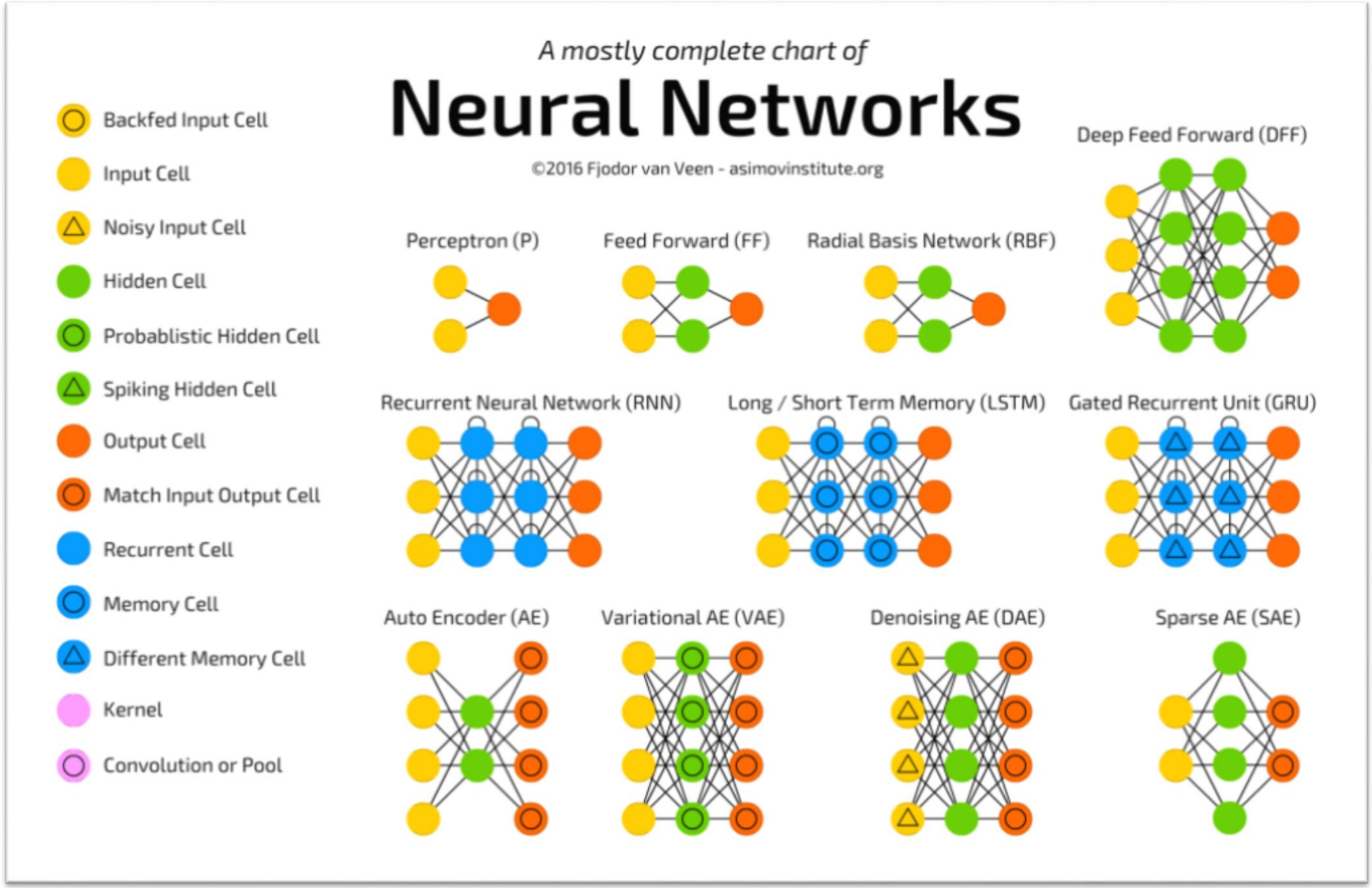

Input 1
Input 2
Input 3
N1
N2
N3
N4
O1
O2
Output 1
Output 2
Input
Hidden layer
Output layer
Output



n-Input

k-Hidden layers → deep layer

m-Output layer

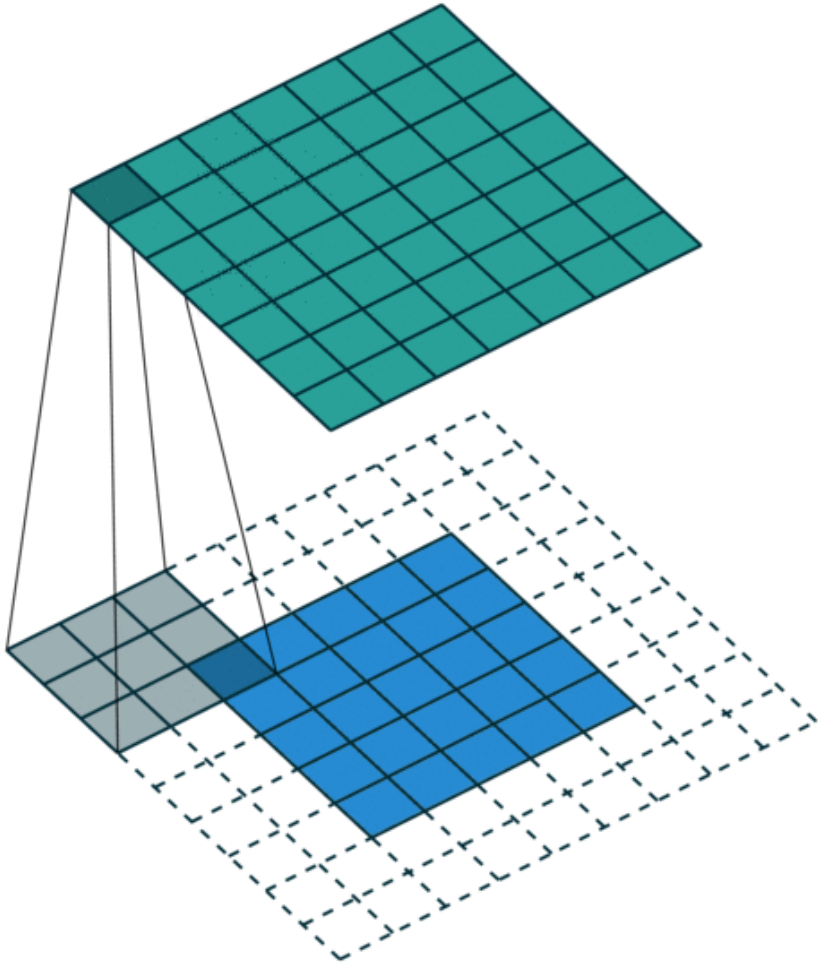


https://leonardoaraujosantos.gitbooks.io/artificial-inteligence/content/neural_networks.html

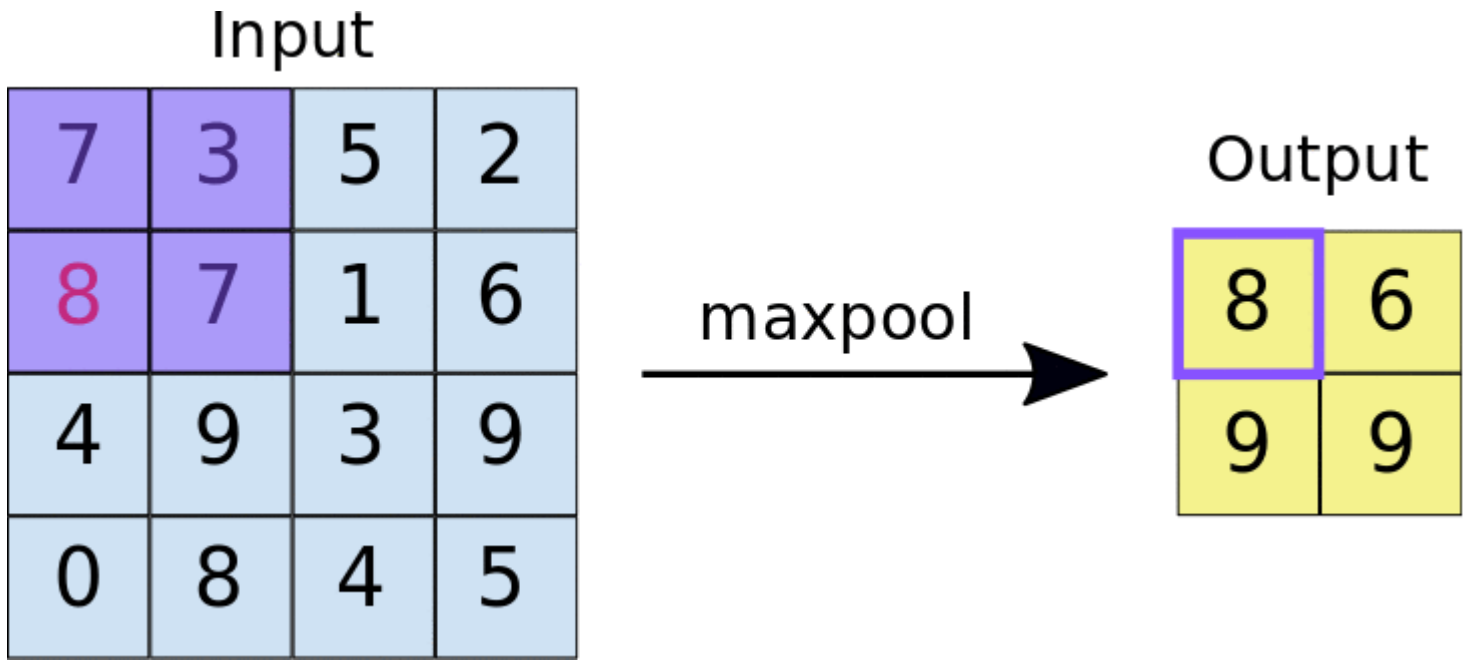
Deep Learning of Images

→ Conv2D

Conv2D

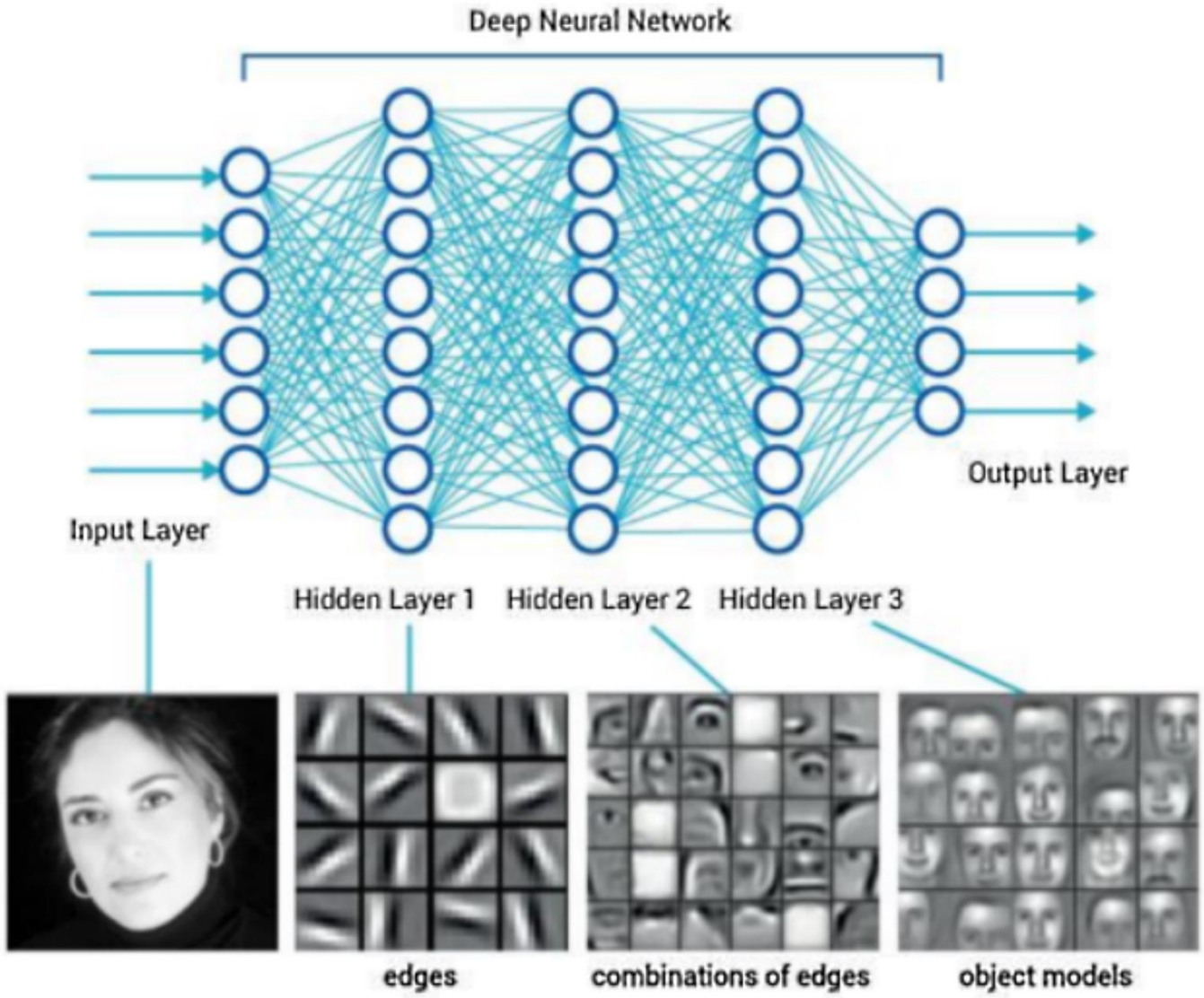


Max-Pooling



https://developers.google.com/machine-learning/practica/image-classification/convolutional-neural-networks

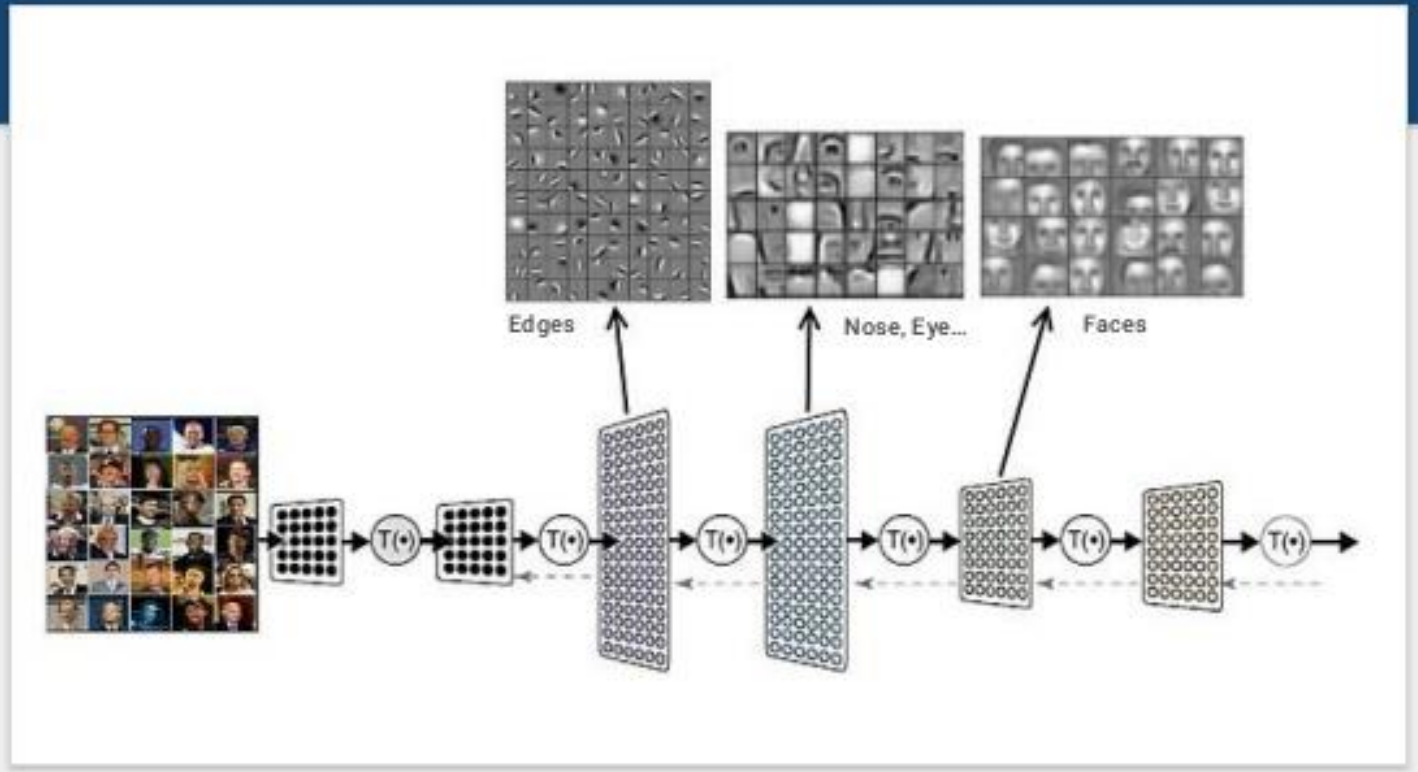
How does DL work on images?



https://miro.medium.com/max/616/1*Uhr-4VDJD0-gnteUNFzZTw.jpeg

Deep Learning - Basics

What did it learn?



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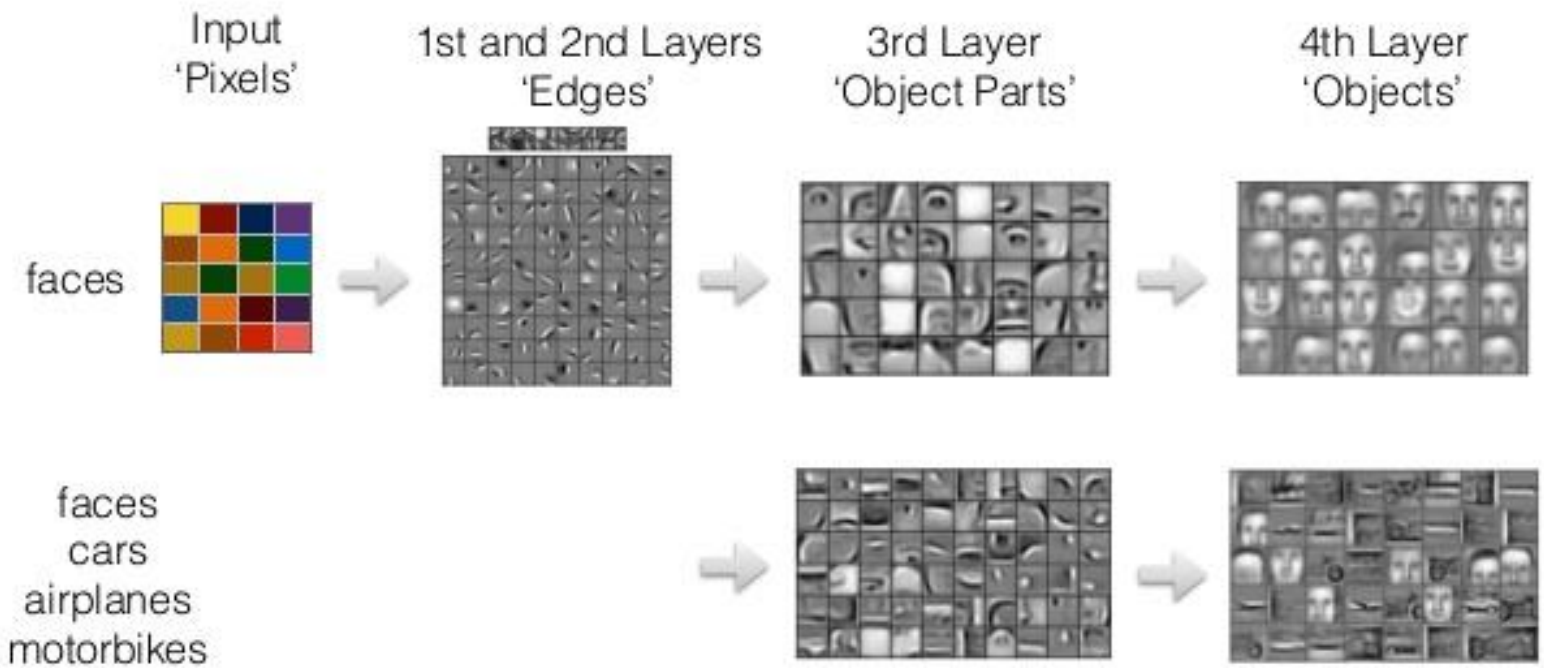
Going deeper in the network



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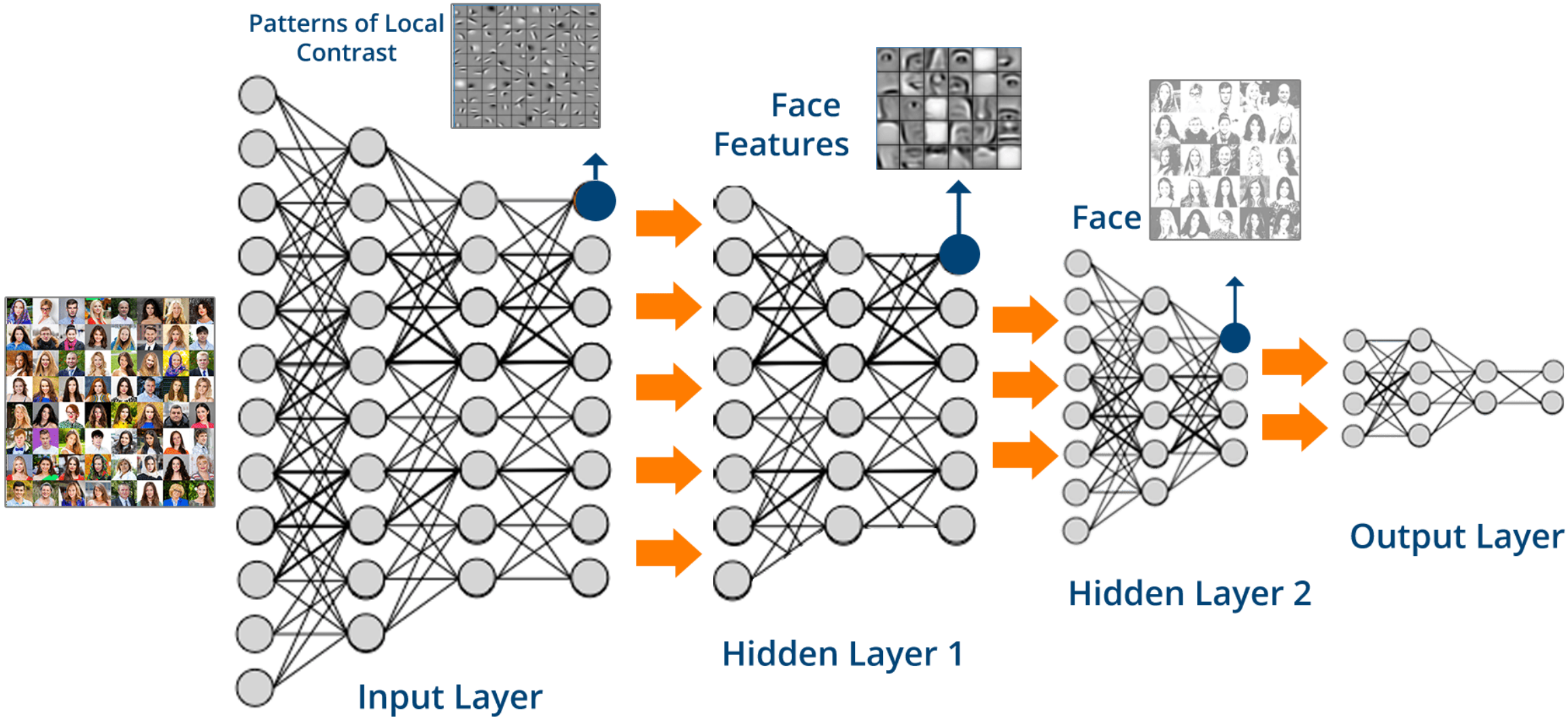

https://cdn.edureka.co/blog/wp-content/uploads/2017/05/Deep-Neural-Network-What-is-Deep-Learning-Edureka.png