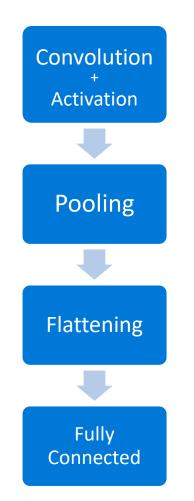
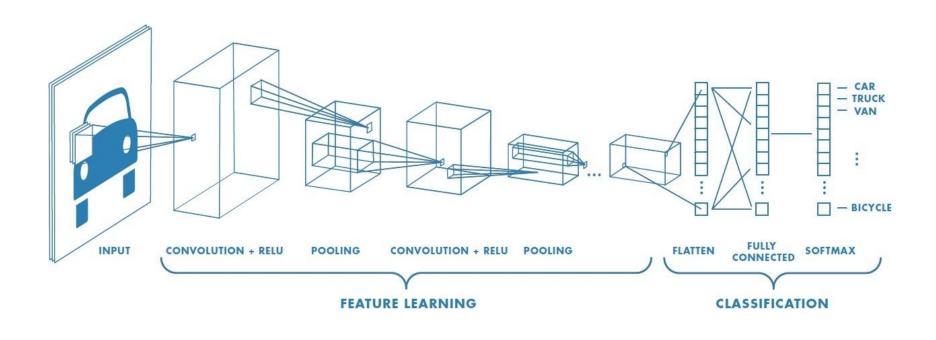
CONVOLUTIONAL NEURAL NETWORKS

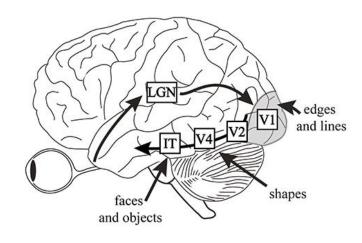
What is CNN

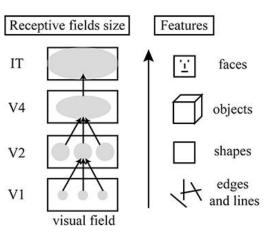




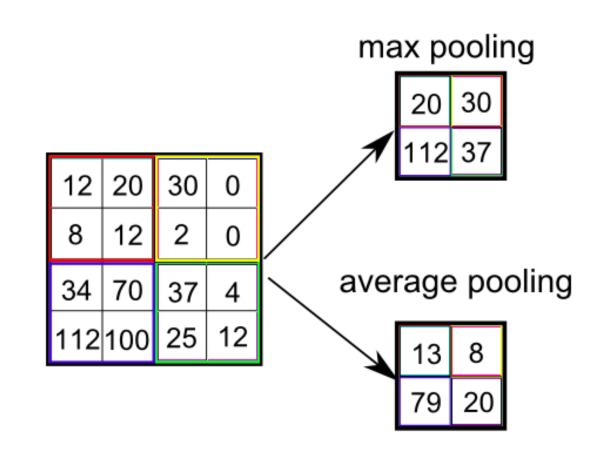
Why CNN

- Inspired from Biological Visual System
- Performs better than simple feed forward ANNs

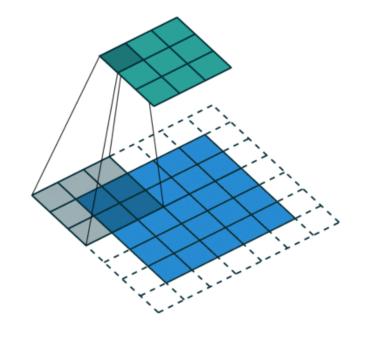




Pooling



Convolution



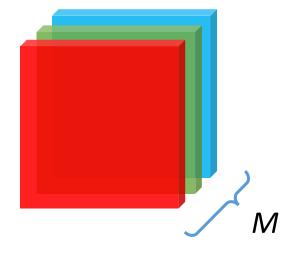
1 _{×1}	1 _{×0}	1,	0	0
0,0	1,	1,0	1	0
0 _{×1}	0 _{×0}	1,	1	1
0	0	1	1	0
0	1	1	0	0

Image

4	

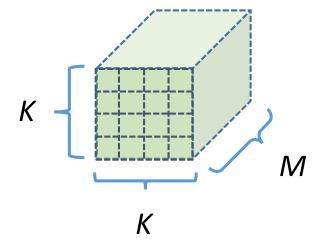
Convolved Feature

3D Convolution



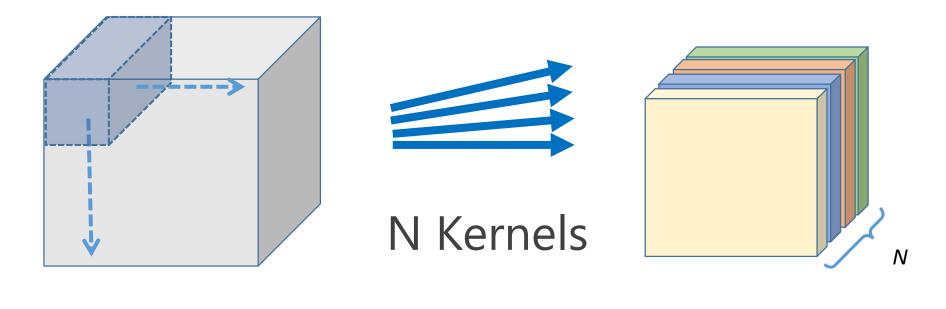
Input Image

3D Convolution



Kernel

3D Convolution



Feature Map

3D Convolution

Fully Connected Neural Network

