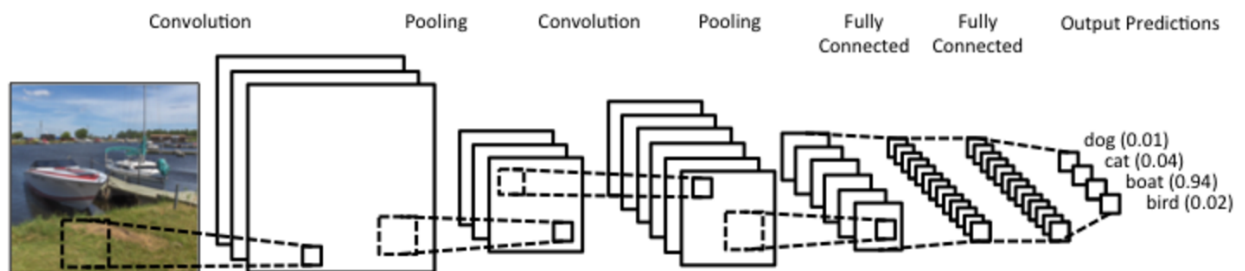
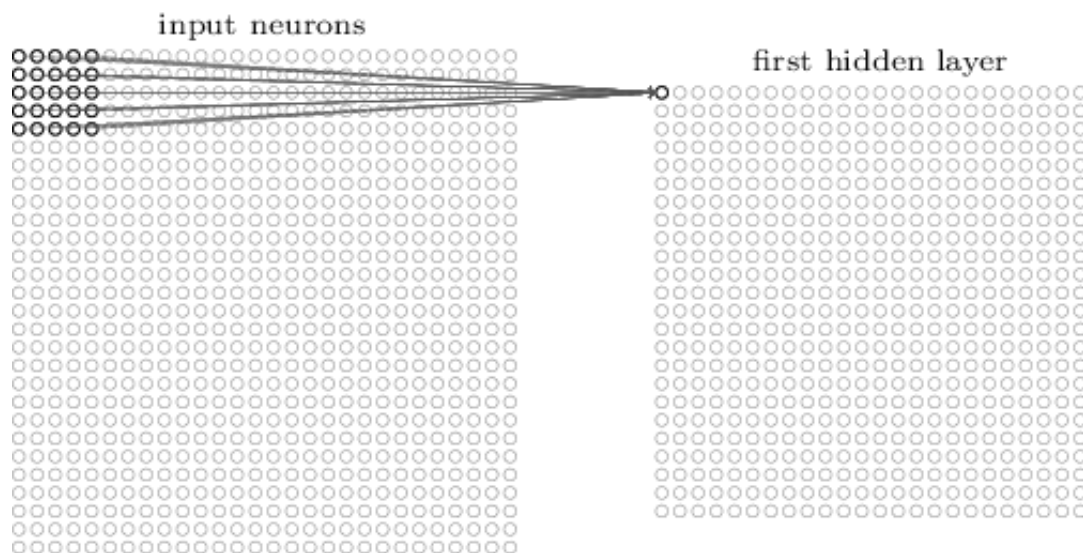


Convolutional Neural Networks



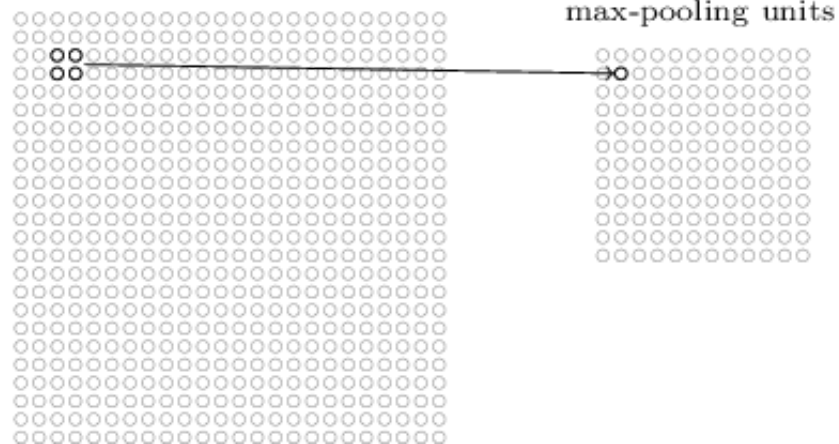
1. Model

convolution:

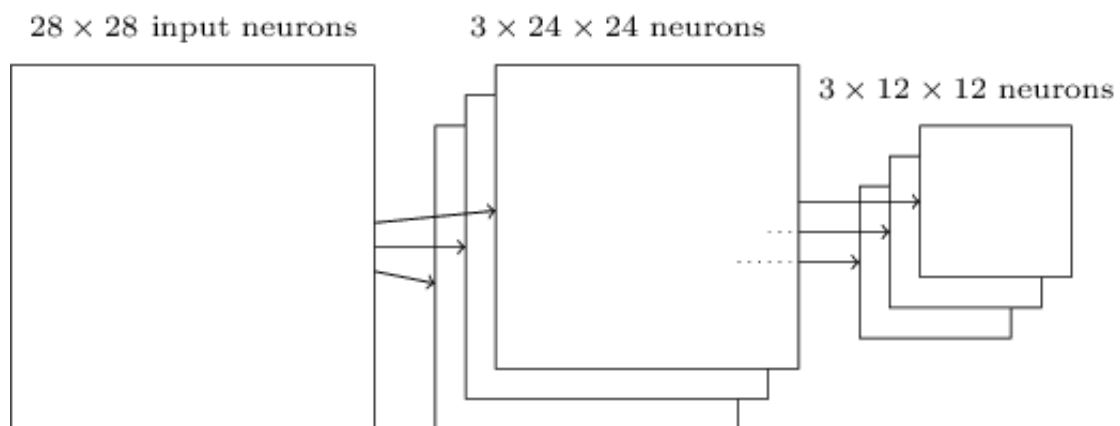


pooling:

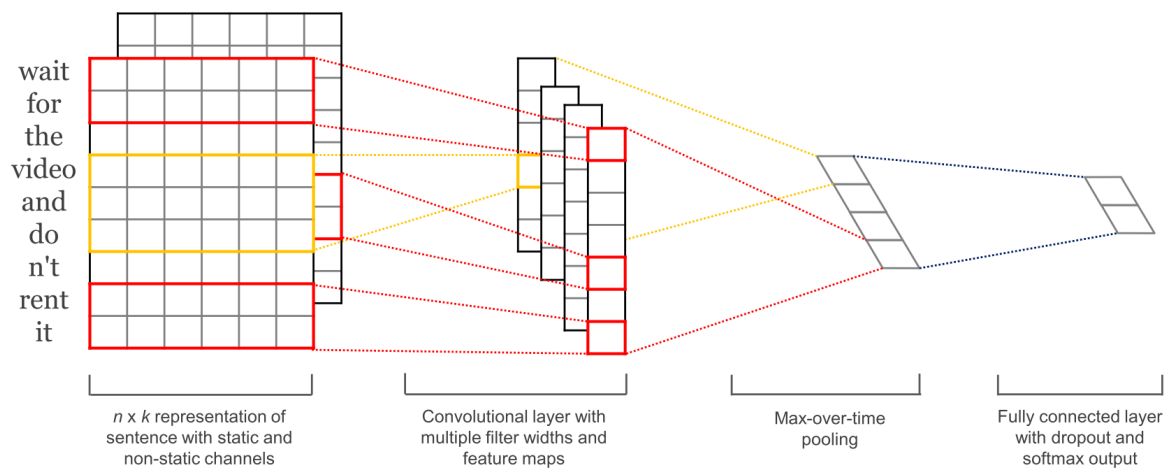
hidden neurons (output from feature map)



combination:



2. CNN in NLP



Convolutional Neural Networks for Sentence Classification [1]

result:

Model	MR
CNN-rand	76.1
CNN-static	81.0
CNN-non-static	81.5
CNN-multichannel	81.1

Reference

1. Yoon Kim. Convolutional Neural Networks for Sentence Classification.
EMNLP 2014

http://www.people.fas.harvard.edu/~yoonkim/data/emnlp_2014.pdf