Convolutional Neural Networks + Assignment 7, 8 (Neural Networks Implementation and Application Tutorial)

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Overview

- Assignment 7
- Content
- Assignment 8

Assignment 7

• What was the hardest part?

Questions

- What is convolution?
- What is a kernel?
- What is stride and padding?
- What is pooling?

AlexNet - How many parameters?

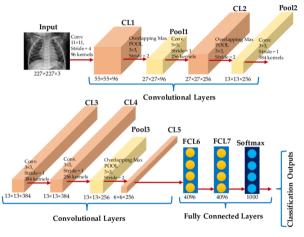


Figure 1: AlexNet [1]

layer	weights	biases
conv1	96 · 11 · 11 · 3	96
conv2	$256 \cdot 5 \cdot 5 \cdot 96$	256
conv3	$384 \cdot 3 \cdot 3 \cdot 256$	384
conv4	256 · 3 · 3 · 384	256
fc1	$6\cdot 6\cdot 256\cdot 4096$	4096
fc2	4096 · 4096	4096
fc3	4096 · 1000	1000

In total 62378344

Assignment 8

Any questions?

Resources

• [1] AlexNet image researchgate.net/figure/AlexNet-Structure-11-41_fig3_340644618