

CNN Training Using a Custom Dataset



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CNN Architecture

Conv, Stride, padding, Maxpool, Batch Normalization,
activation function, fc layers

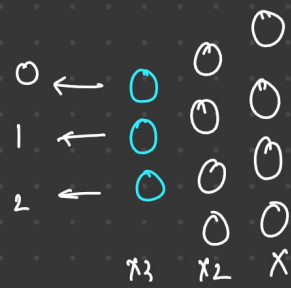
Input
↓
Image → CNN
↓

① conv Relu Maxpool → $N \times N \times Y$ → conv Relu Maxpool

② conv BN Relu Maxpool → conv BN Relu Maxpool

$256 \times 128 \times 12$
= 256000

flatten



{ 0: Dog, 1: Cat, 2: Person }

→ Dog

$$x_1 = 256000$$

$$[1 \times 256000]$$

$$256000 \rightarrow$$

$$000000$$

$$16 \quad 00000$$

$$\leftarrow 000$$

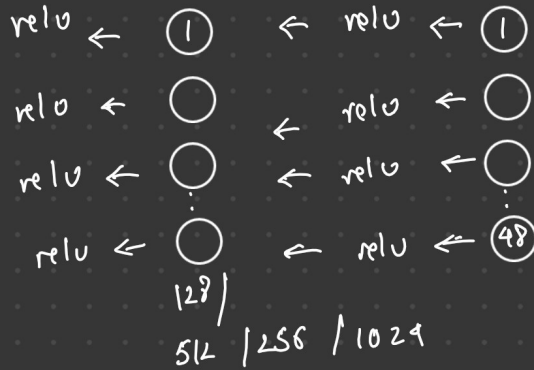
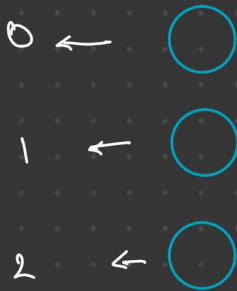
clavier

Conv BN Relu Maxpool

Conv BN Relu Maxpool

Conv BN Relu Maxpool

Conv BN Relu Maxpool



128

2x2 ←

11

128x4

↓

48

Op