

Convolutional Neural Networks

Convolutional neural network example

inspired of Neural network example CONV7 800L7 POOL (SNV) Marpus 28×28×6 10×10×16 32232436 0,1,2,... 9 Softnax (10 outputs) NH, Nw (120,400) (170) CONU-POOL-CONV-POOL-EC-FC-FC-SOFTMAX

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Neural network example

| | Activation shape | Activation Size | # parameters |
|------------------|------------------|--------------------------------|--------------|
| Input: | (32, 32, 3) | $-3,072$ α^{rol} | 0 |
| CONVI(== , (=1) | (28, 28, 8) | 6,172 | 60b < |
| P00L1 | (14, 14, 8) | 1,568 | ₽ ← |
| (ONV2(f=5,5=1) | (10,10,16) | 1,600 | 1,26 ← |
| P00L2 | (5, 5, 16) | 400 | 0 ← |
| FC3 | (120,1) | 120 | 46,120 } \$ |
| F(4 | (64, 1) | <u>B4</u> | 10,164 |
| Sodemax | (10,1) | 10 | gro |