Lab-10-1 Convolution

- · Convolution: 0/0/21 9/0/6/ Stride it Dez filter (temellé 0/3/11/0/11/0/24/25 USD + FREGUE POOMET DE CHE TEZ 32/02 FE EXE
- · Stride: filter = of Hou of the olfat 2007-
- ·padding: zeto-padding
- · Pytorch. nr. Conv2d (in_channels, out_channels, kenne(_size, 5+fide=1, padding=0, dilation=1, groups=I, bias= (rae)

 Out(Vi, Cout;) = bias(Cout;) + Si weight(Cout, k) *

 in put(Ni, k) Choss-correlation!

input shape: (NXCX(+XW)

(hatch_size, channel, height, width)

Output size = infut size - filter size + (2* padding) +1

ex) Conv=nn_conv2d (1,1,1) stride=(+, padding=0)
inputs = totch_tensoh (1,122) input size
out = conv (in puts)

out. shape >> torch. Size (1, 1, 5, 5)

- · My pooling: 0,910 tol1 2 3
- · average pooling: 4.91 of 177

torch.nn. Wax fool 2d (kernel_ Size, Stride = None, Dadding = 0, dilation = 1, return_indicies= Forlse, ceil_mode= false) Autocorrelation 6 Convolution Cross-corre Cotion $(449)(t) \stackrel{def}{=} \int_{-\infty}^{\infty} f(\tau)g(t-\tau)d\tau = \int_{-\infty}^{\infty} f(t-\tau)g(\tau)d\tau$ E/2012 HINESTER Convolution, OFFIZE JAMESTER Cross-Correlation