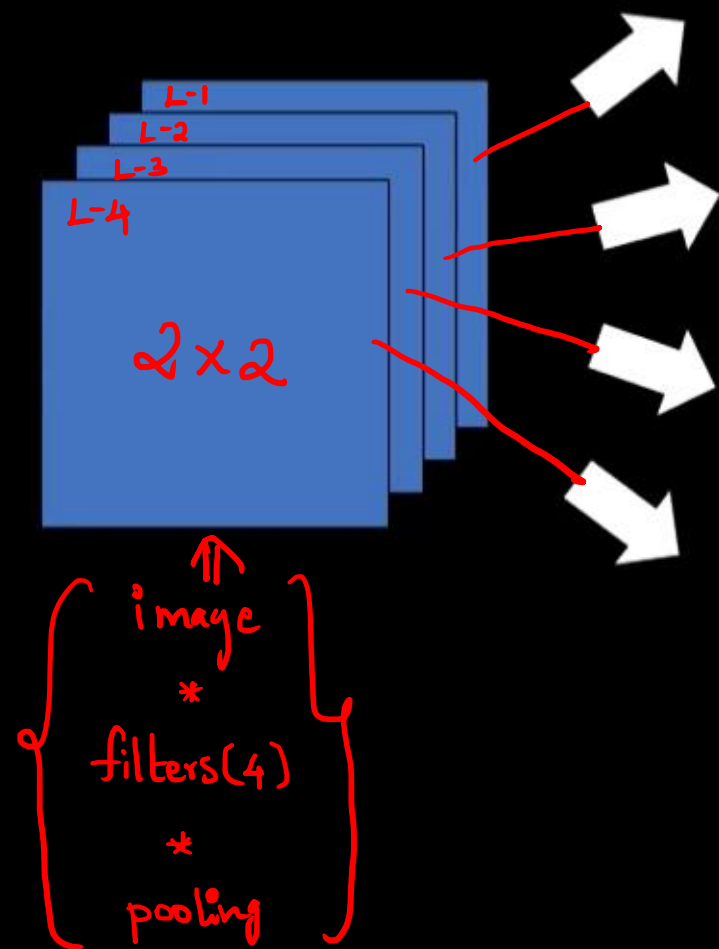


CONVOLUTIONAL LAYER



$L-1$

0.6	1
0.3	0

$L-2$

0.6	0.3
0.8	1

$L-3$

1	0.5
0.4	0.1

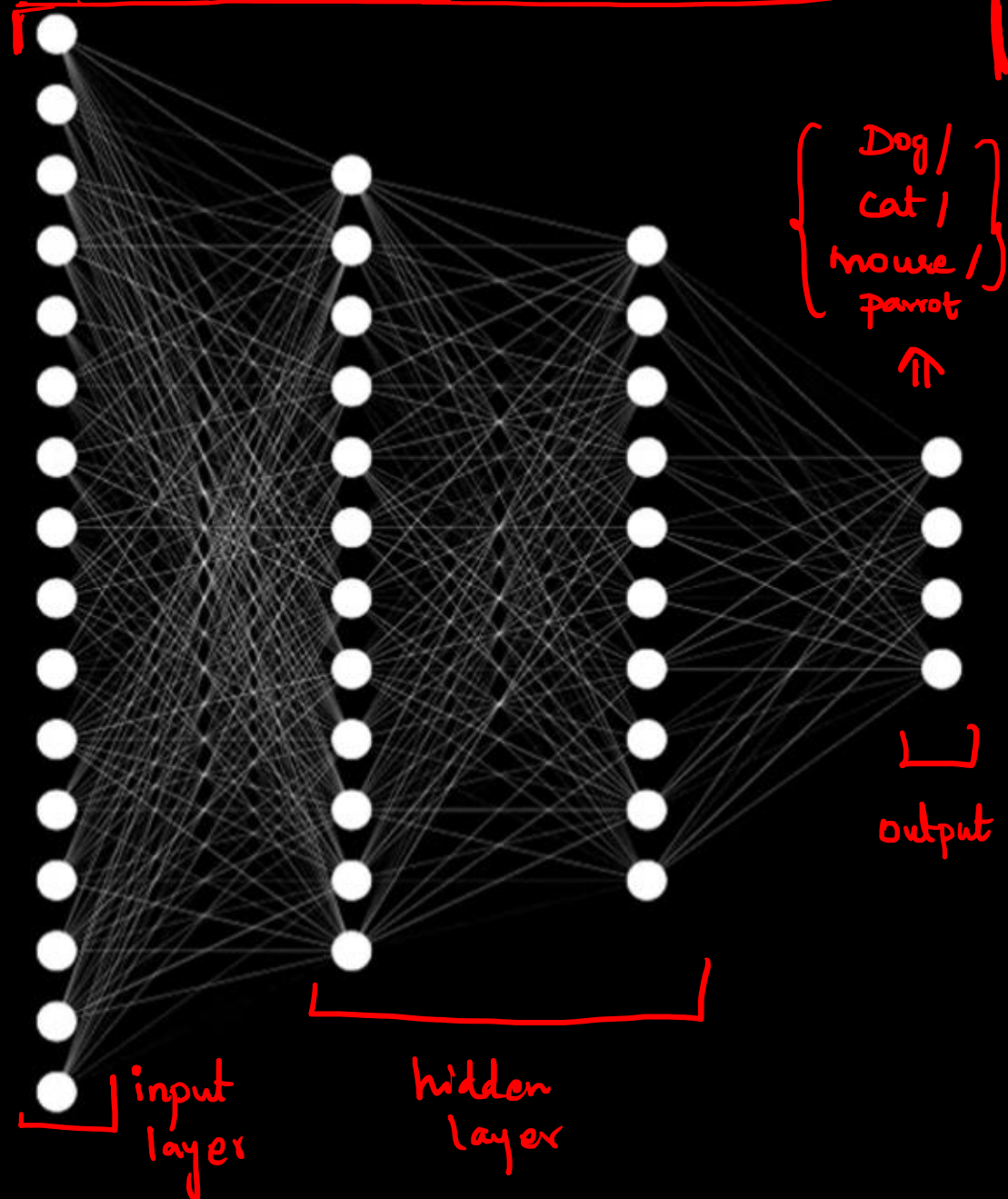
$L-4$

0.2	0.7
1	0.5

Flatten

0.6
1
0.3
0
0.6
0.3
0.8
1
1
0.5
0.4
0.1
0.2
0.7
1
0.5

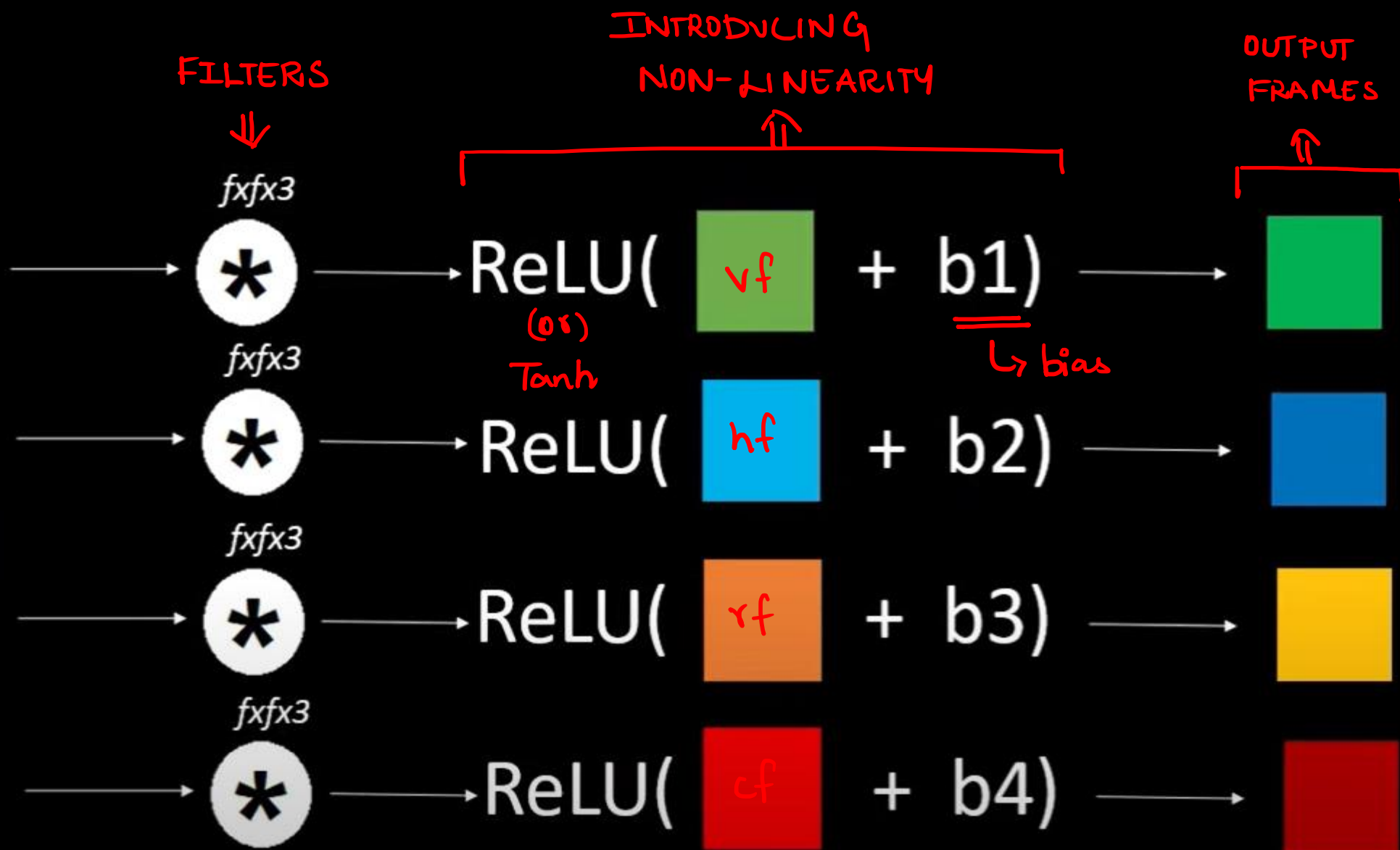
DENSE LAYER (ANN)





INPUT
IMAGE

$(n \times n \times 3)$
RGB
FRED \otimes

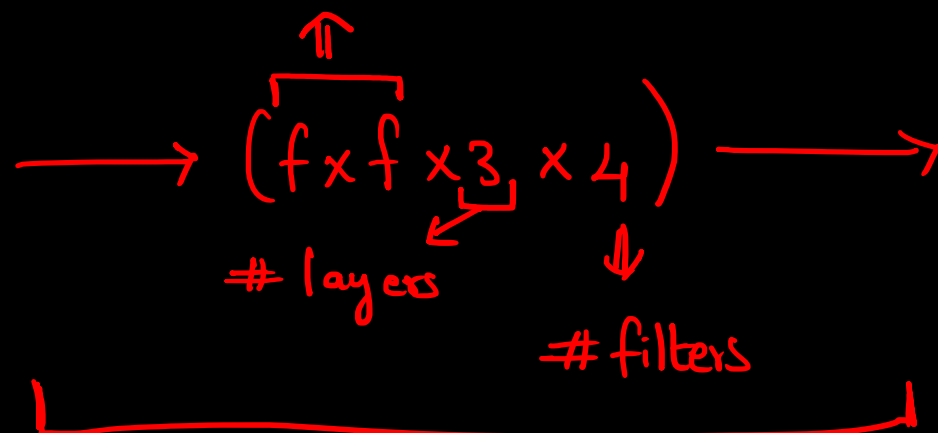


SINGLE CONVOLUTION

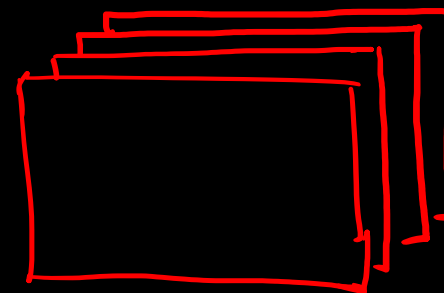
$(n \times n \times 3)$



filter dimension



C-1



$(n-f+1)(n-f+1) \times 4$

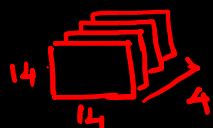
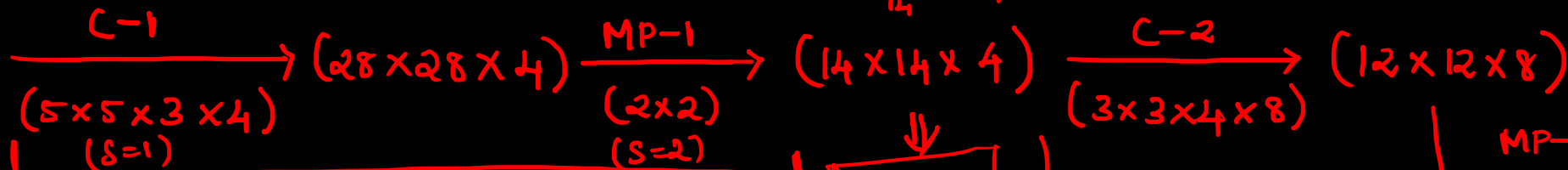
$\{32 \times 32 \times 3\}$



32

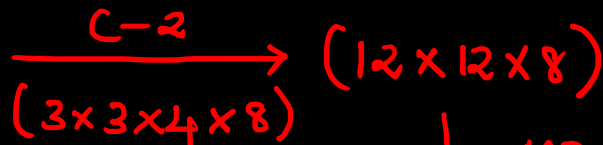
32

[FRED / HUMAN]



1-LAYER

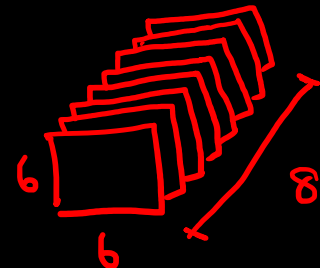
IMAGE



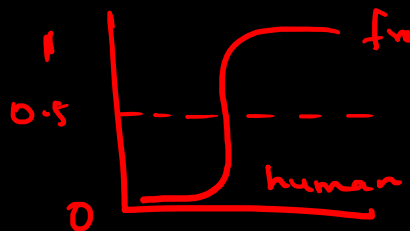
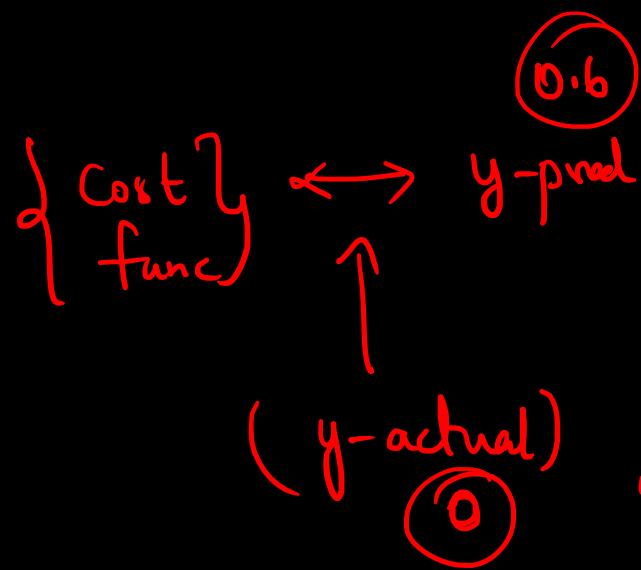
MP-2
(2×2)
($s=2$)

flatten

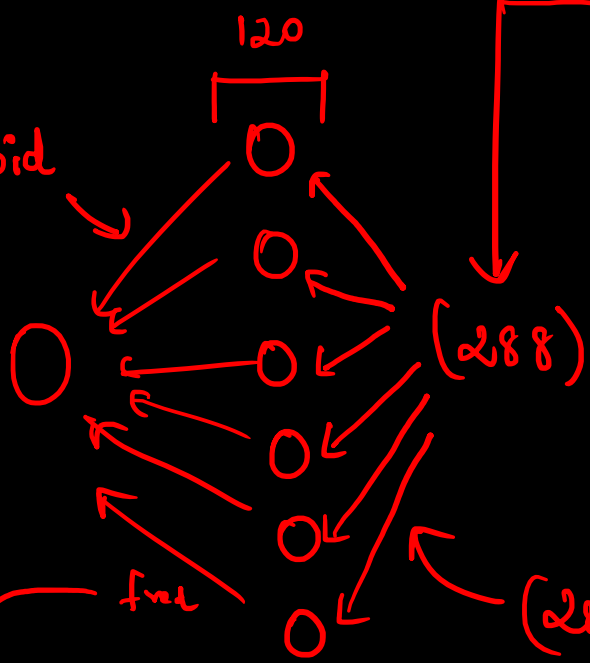
$(6 \times 6 \times 8) \Rightarrow$ IMAGE



2-LAYER

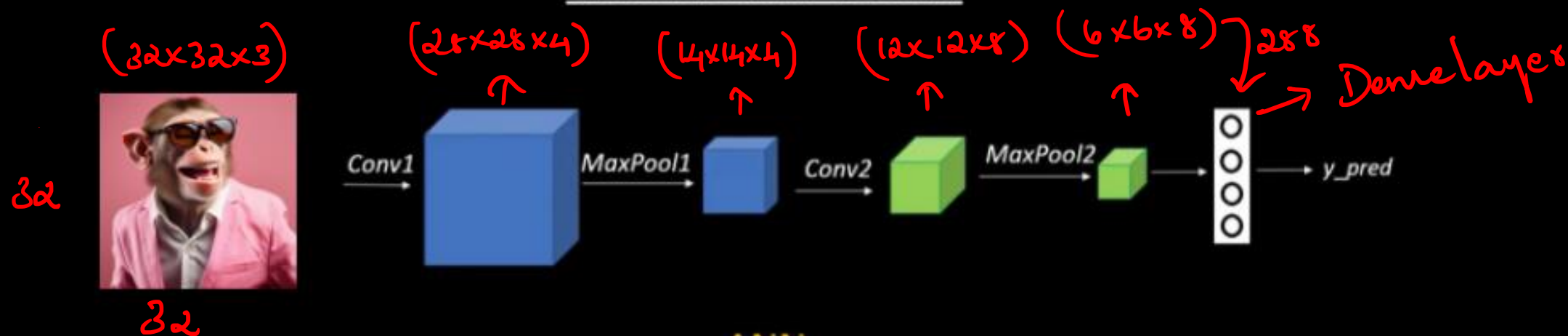


Sigmoid



$(288 \times 120) + \text{bias} \Rightarrow \text{params}$

CNN ARCHITECTURE



ANN

