

SL.No		Activation Shape	Activation Size	# Parameters
1.	Input Layer:	(32, 32, 3)	3072	0
2.	CONV1 (f=5, s=1)	(28, 28, 8)	6272	608
3.	POOL1	(14, 14, 8)	1568	0
4.	CONV2 (f=5, s=1)	(10, 10, 16)	1600	3216
5.	POOL2	(5, 5, 16)	400	0
6.	FC3	(120, 1)	120	48120
7.	FC4	(84, 1)	84	10164
8.	Softmax	(10, 1)	10	850

1. The first input layer has no parameters.

2. Parameters in the second CONV1(filter shape =5*5, stride=1) layer is:

((shape of width of filter*shape of height filter*number of filters in the previous layer+1)*number of filters) = (((5*5*3)+1)*8) = 608.

3. The third POOL1 layer has no parameters.

4. Parameters in the fourth CONV2(filter shape =5*5, stride=1) layer is: **((shape of width of filter * shape of height filter * number of filters in the previous layer+1) * number of filters) = (((5*5*8)+1)*16) = 3216.**

5. The fifth POOL2 layer has no parameters.

6. Parameters in the Sixth FC3 layer is**((current layer c*previous layer p)+1*c) = 120*400+1*120= 48120.**

7. Parameters in the Seventh FC4 layer is: **((current layer c*previous layer p)+1*c) = 84*120+1* 84 = 10164.**

8. The Eighth Softmax layer has **((current layer c*previous layer p)+1*c) parameters = 10*84+1*10 = 850.**