

Number of epochs	Test data accuracy	Run time
1	0.8681	2m 7s
3	0.9017	4m 35s
5	0.9047	5m 46s
7	0.9066	9m 28s
10	0.9072	13m 34s

Number of convolutional layers: 2

Number of convolutions: 3

Size of convolutions: 3

Pool size: 2x2

Pool type: max

Accuracy and run time increase as the number of epochs increases.

Number of convolutional layers	Test data accuracy	Run time
1	0.8814	56s
2	0.8818	2m 34s
3	0.8793	2m 41s
4	0.8421	1m 20s
5	0.8744	8m 15s

Number of epochs: 1

Number of convolutions: 3

Size of convolutions: 3

Pool size: 2x2

Pool type: max

As the number of convolutional layers increases, the run time increases, but the accuracy rate decreases a bit.

Number of convolutions	Test data accuracy	Run time
1	0.7803	49s
2	0.8363	35s
3	0.8451	35s

4	0.8568	35s
5	0.8539	51s

Number of epochs: 1

Number of convolutional layers: 1

Size of convolutions: 1

Pool size: 3x3

Pool type: max

As the number of convolutions increases, the accuracy increases. The run time is less predictable.

Size of convolutions	Test data accuracy	Run time
1	0.7803	49s
2	0.8551	48s
3	0.8613	37s
4	0.8671	48s
5	0.8669	48s

Number of epochs: 1

Number of convolutional layers: 1

Number of convolutions: 1

Pool size: 3x3

Pool type: max

As the size of convolutions increases from 1 to 5, the accuracy increases, and the run time doesn't change much.

Pool size	Test data accuracy	Run time
1x1	0.8432	2m 33s
2x2	0.8008	48s
3x3	0.7803	49s
4x4	0.7517	29s
5x5	0.6892	26s

Number of epochs: 1

Number of convolutional layers: 1

Number of convolutions: 1

Size of convolutions: 1

Pool type: max

As the pool size increases, the run time decreases and the accuracy decreases.

Pool type	Test data accuracy	Run time
Max	0.8595	1m 32s
Average	0.7986	49s

Number of epochs: 1

Number of convolutional layers: 2

Number of convolutions: 3

Size of convolutions: 3

Pool size: 3x3

Max pooling gave a better accuracy and a higher run time than average pooling did in this test.