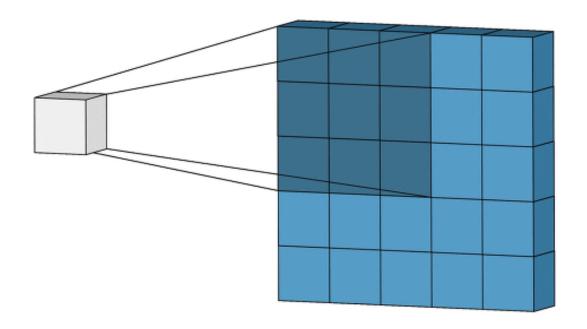
Convolution Neural Network 3



합성곱(Convolution)





패딩

■ 패딩이란 값을 0과 같은 임의의 값으로 채워서 텐서의 사이즈를 유지하거나 키 우는 기법

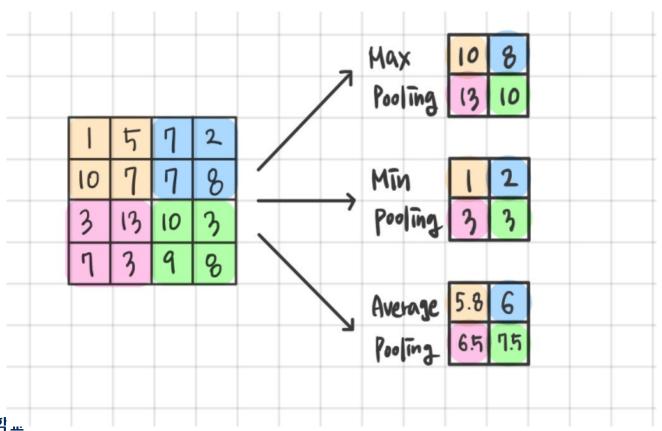
0	0	0	0	0	0	0
0	1	1	1	0	0	0
0	0	1	1	1	0	0
0	0	0	1	1	1	0
0	0	0	1	1	0	0
0	0	1	1	0	0	0
0	0	0	0	0	0	0

Image (+zero Padding)



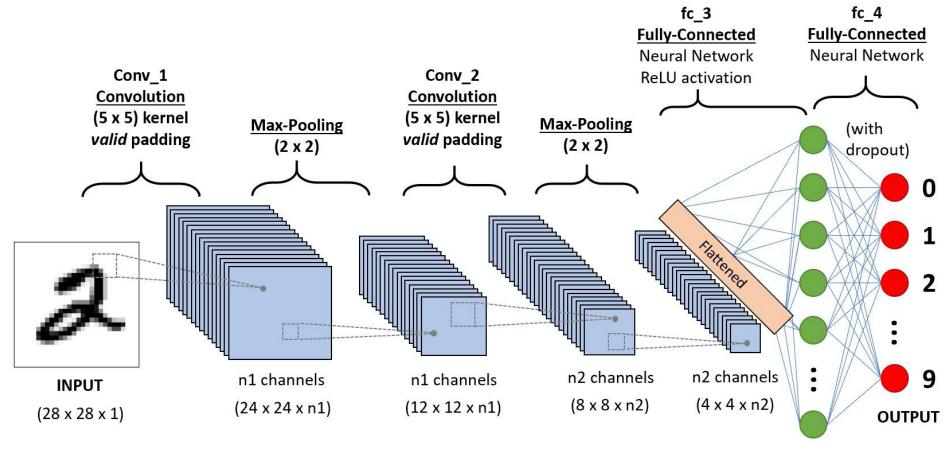
풀링

패딩과는 다르게 이미지의 크기를 줄이는 방법



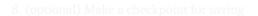


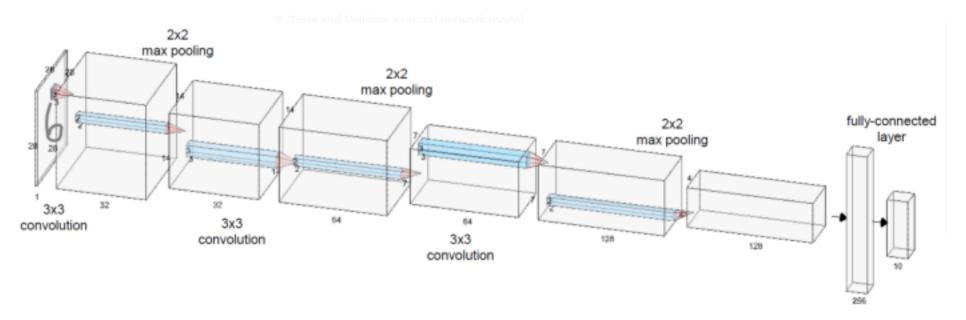
합성곱 신경망 (Convolutional Neural Network)





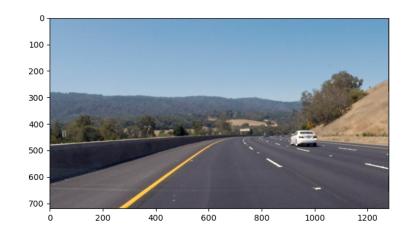
합성곱 신경망 (Convolutional Neural Network)



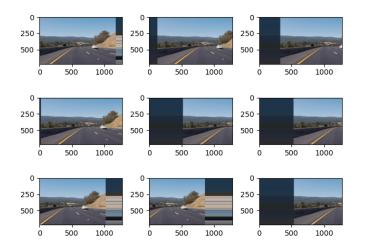


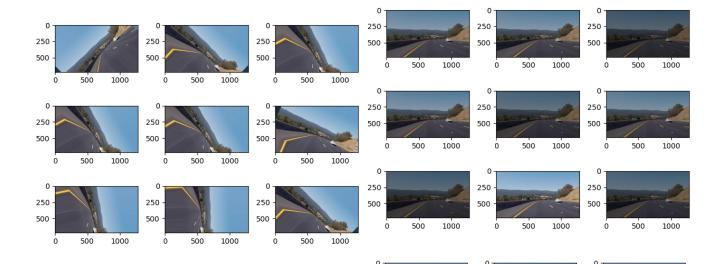


- ▋데이터의 양 늘이기 (Data Augmentation)
- Keras의 ImageDataGenerator 함수를 사용하여 데이터를 합성하기



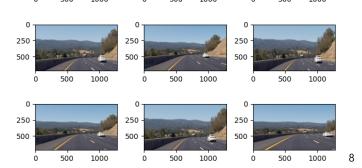






datagen = ImageDataGenerator(zoom_range=[0.5,1.0])

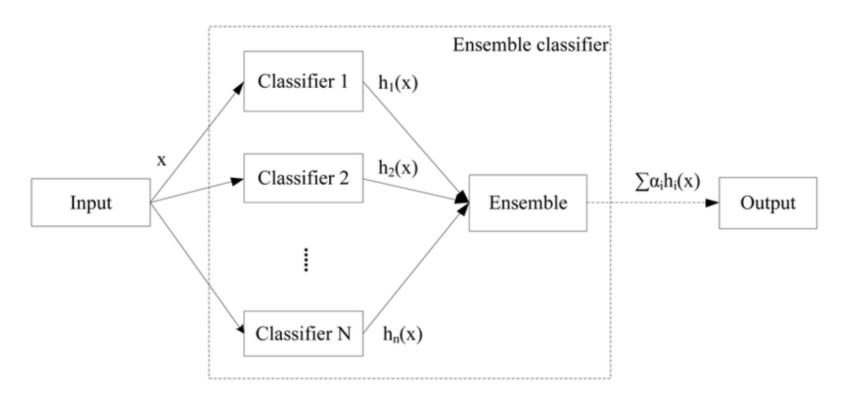
datagen = ImageDataGenerator(rotation_range=90)



250



Ensemble 모델





Ensemble 모델

