

< Part 2 > 데이터 사이언스 평가기능

[Ch 01.] 딥러닝 네트워크의
역산

[Ch 02.] 이

Lecture. 7

Convolutional

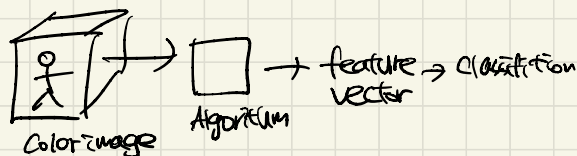
Neural Networks

YHJ

<Lecture. 7 Convolutional Neural Networks>

CH07-01. [013] - Convolutional - Neural - Networks.

<Modules of Classifier>



↑ Class Scores

Classifier ⇒ Dense Layers

↑ Feature Vector ⇒ Flatten Layer

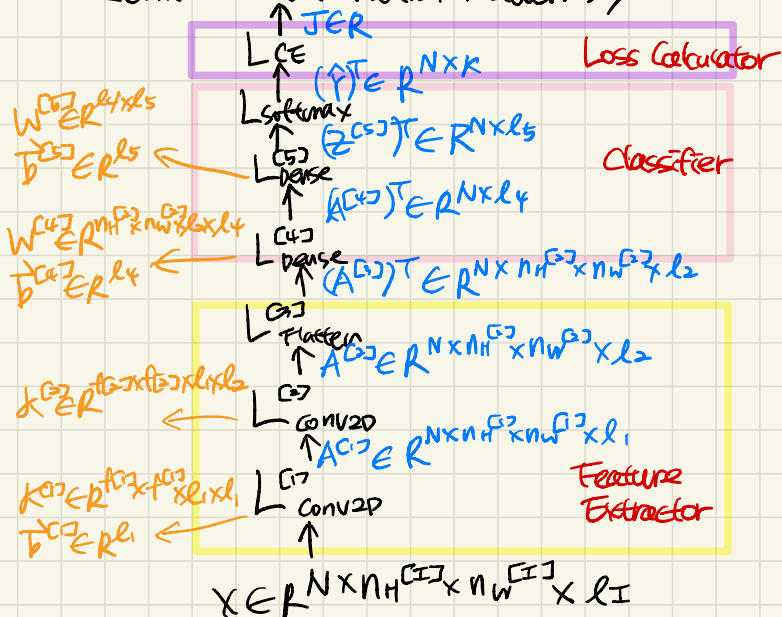
Feature Extractor ⇒ Convolutional Layers + (pooling Layers)

↑
X

Feature 25?

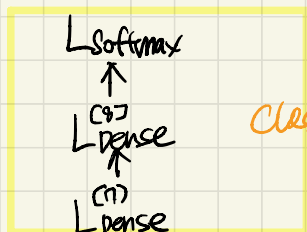


<Convolutional Neural Networks>

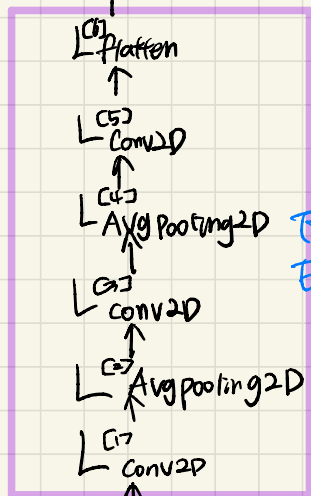


< LeNet >

*** 33 100% of 100.



Classifier



Feature
Extractor

$X \in \mathbb{R}^{N \times 28 \times 28 \times 1}$

LeNet	Filter Size	# of Filters	Padding	Strides	Activation	Output		
Input	-	1	-	-	-	28	28	1
Conv1	5	6	2	1	tanh	28	28	6
AvgPool1	2	-	0	2	-	14	14	6
Conv2	5	16	0	1	tanh	10	10	16
AvgPool2	2	-	0	2	-	5	5	16
Conv3	5	120	0	1	tanh	1	1	120
Flatten	-	-	-	-	-	120	-	-
Dense1	-	84	-	-	tanh	84	-	-
Dense2	-	10	-	-	softmax	10	-	-