

Project Based Learning

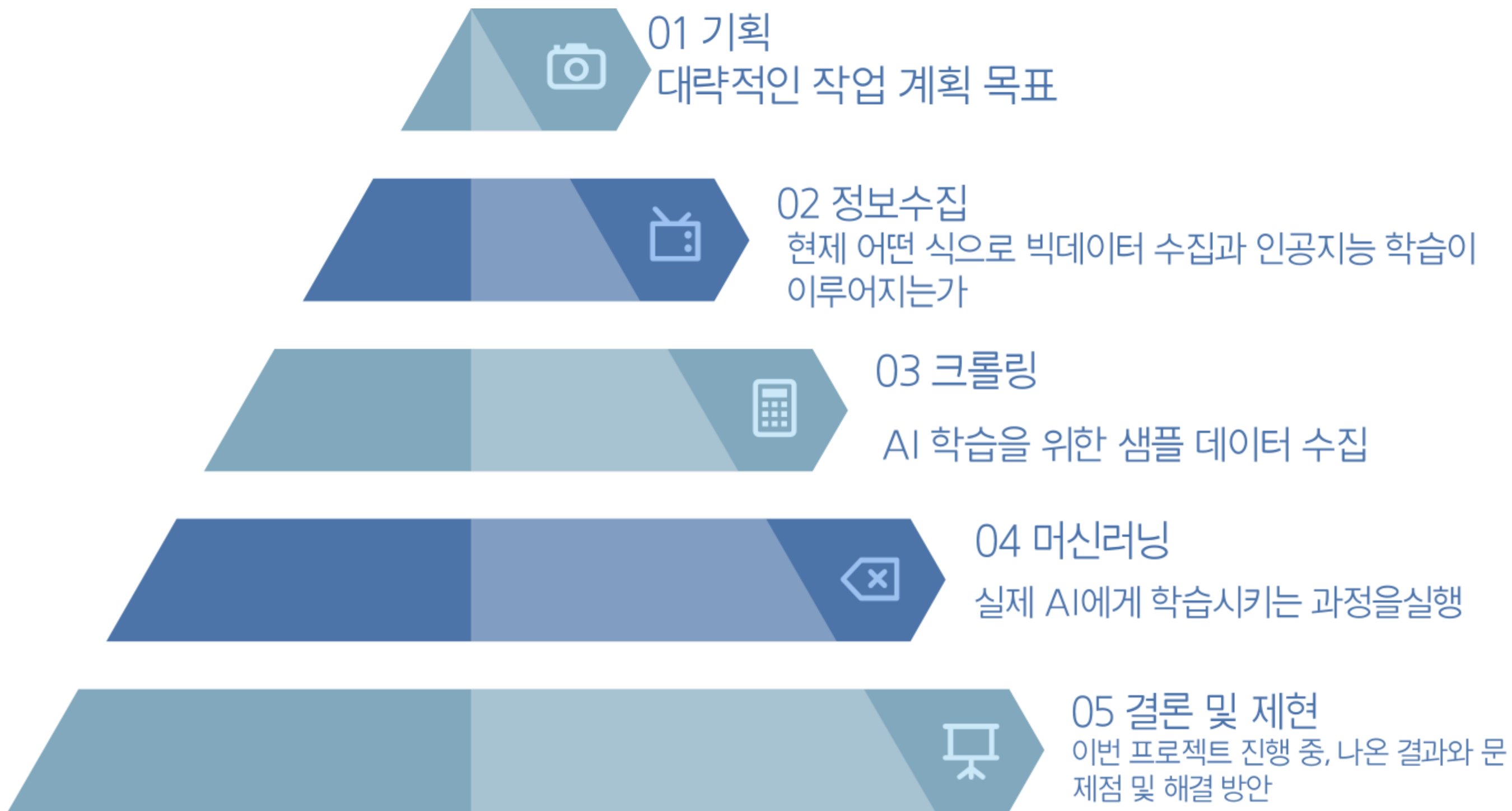
# 환경을 위한 분리수거

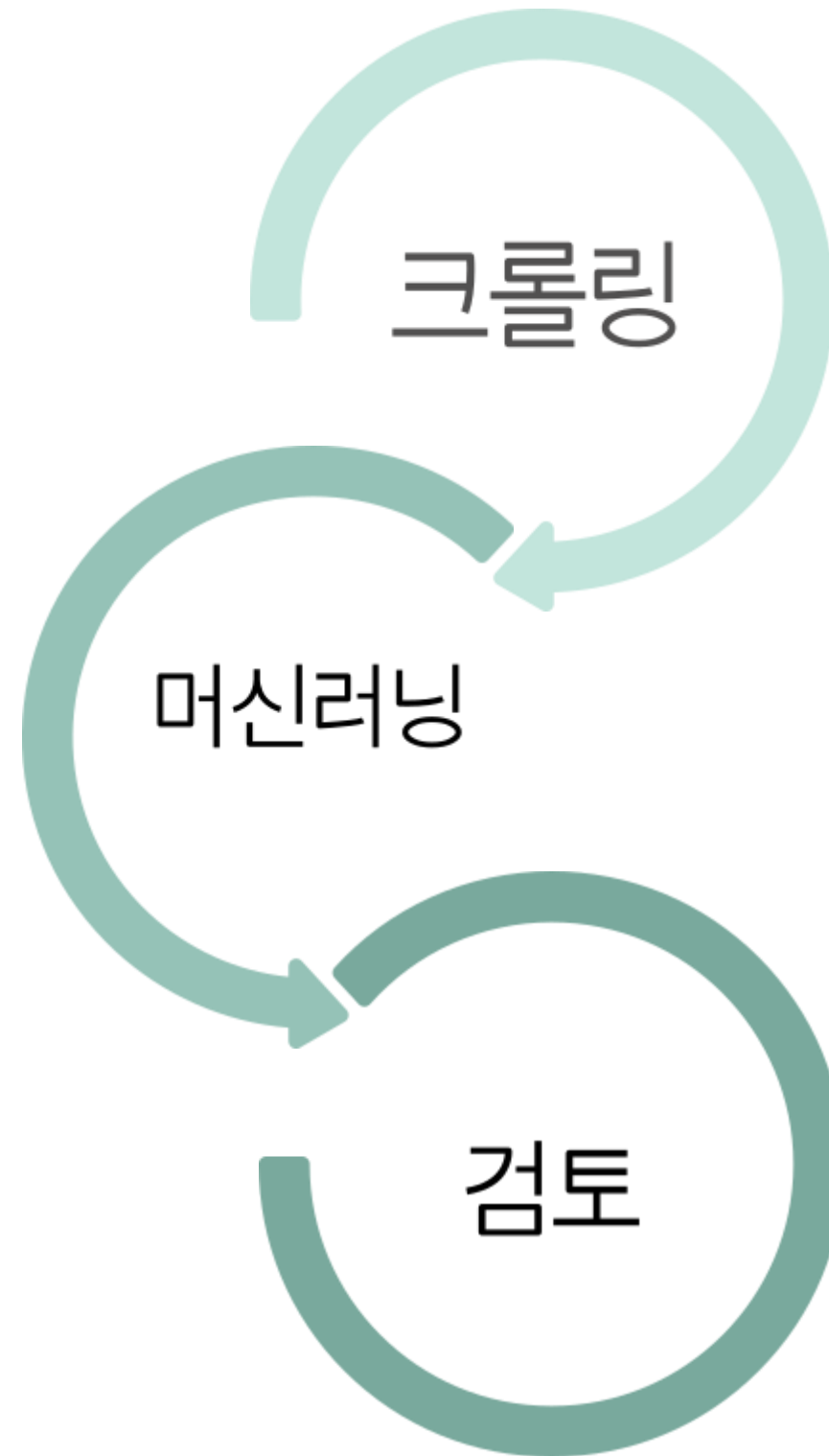
- 이 팀 -



00

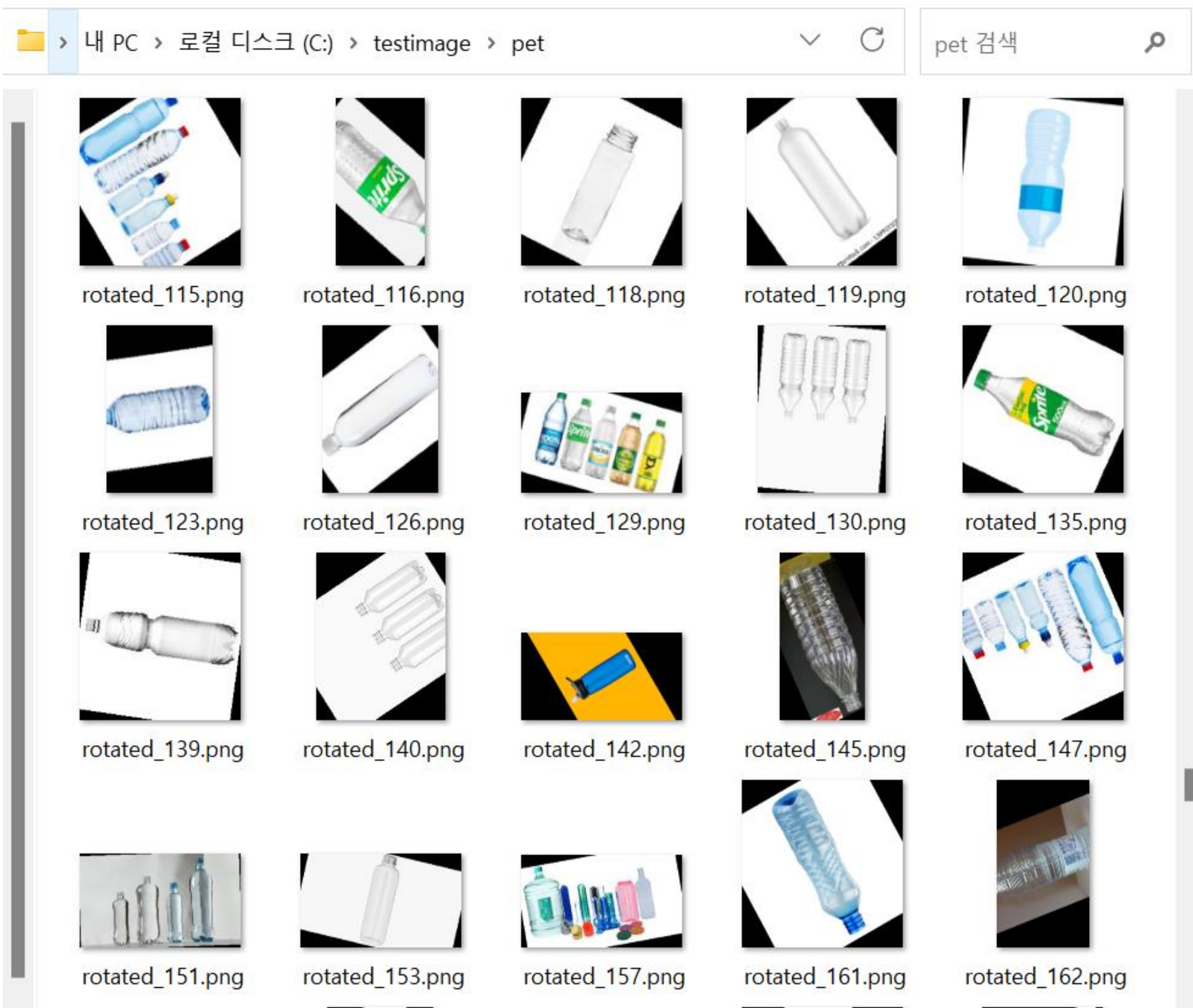
# 진행 순서





```
검색 키워드 입력 : pet bottle  
영문 폴더명 : pet
```







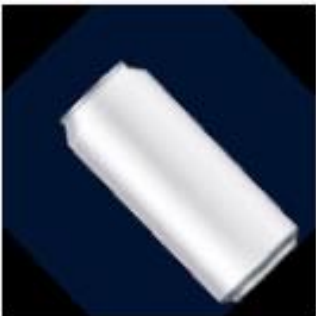













```
88
pet_40.png
현재 1 번째입니다.
C:/testimage/pet/pet_40.png
invert
63
pet_221.png
현재 2 번째입니다.
C:/testimage/pet/pet_221.png
noise
60
pet_219.png
현재 3 번째입니다.
C:/testimage/pet/pet_219.png
noise
20
pet_140.png
현재 4 번째입니다.
C:/testimage/pet/pet_140.png
invert
13
pet_128.png
현재 5 번째입니다.
...
pet_7.png
현재 128 번째입니다.
C:/testimage/pet/pet_7.png
noise
Output is truncated. View as a scrollable element or open in a text editor. Adjust cell output settings...
121
pet_8.png
현재 129 번째입니다.
C:/testimage/pet/pet_8.png
rotate
21
pet_141.png
현재 130 번째입니다.
C:/testimage/pet/pet_141.png
rotate
```





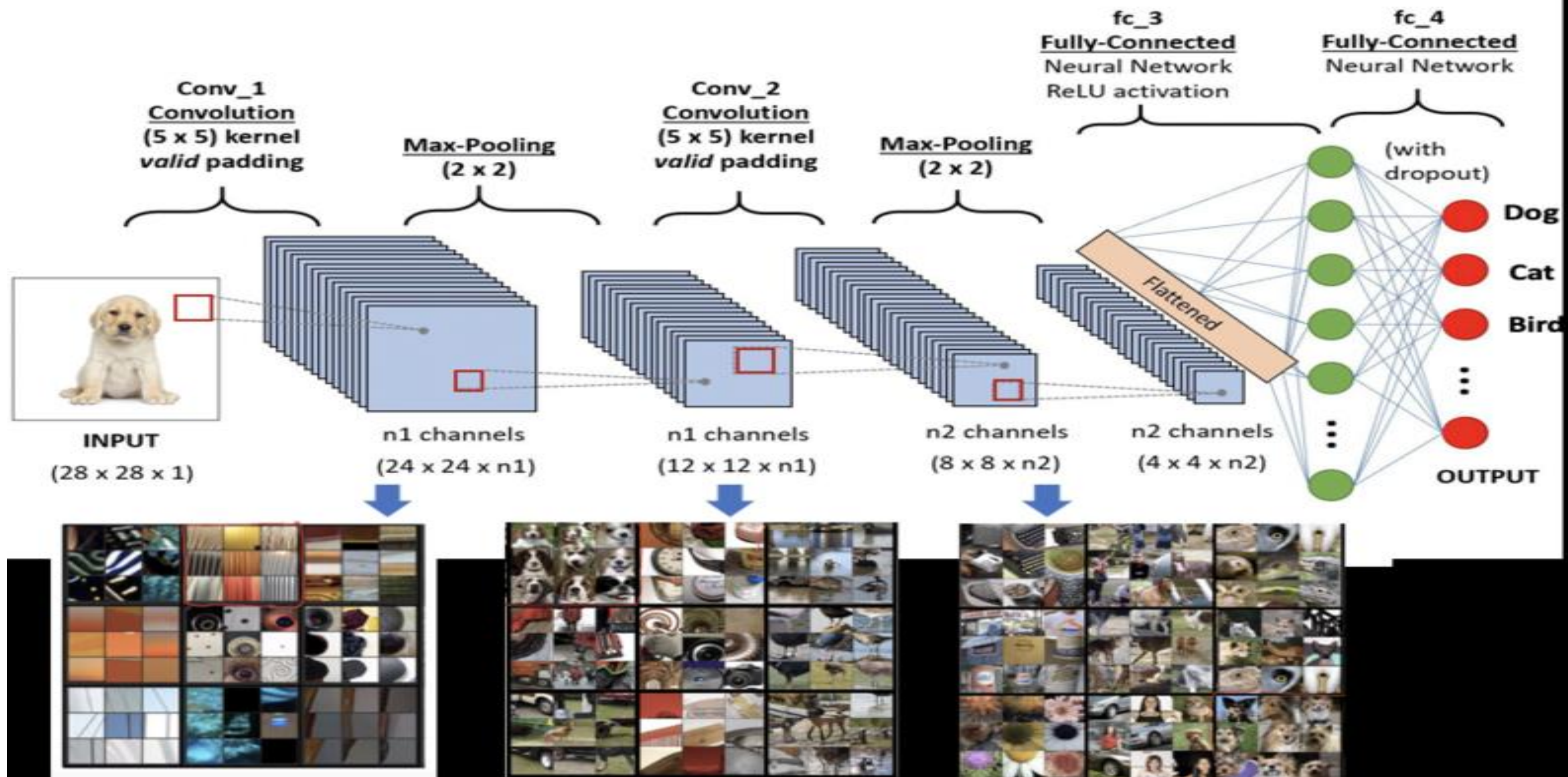
> 내 PC > 로컬 디스크 (C:) > testimage > can

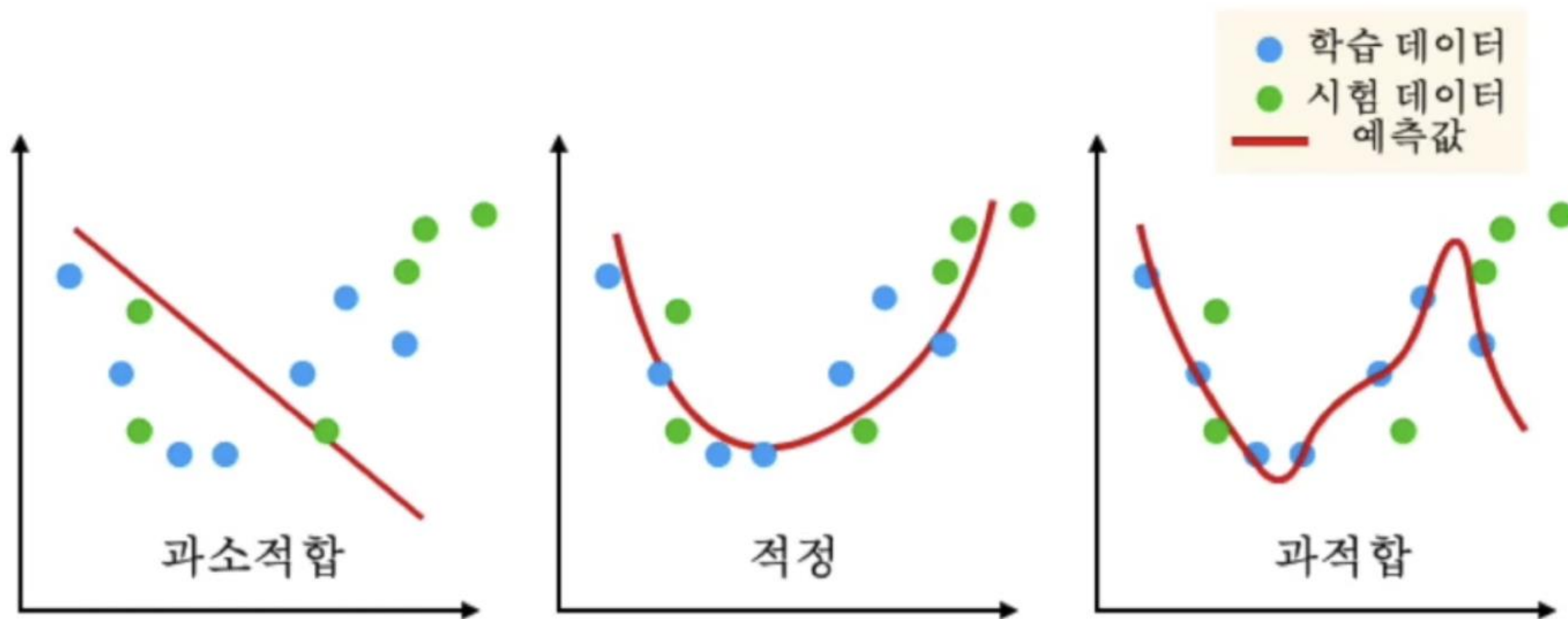
can 검색

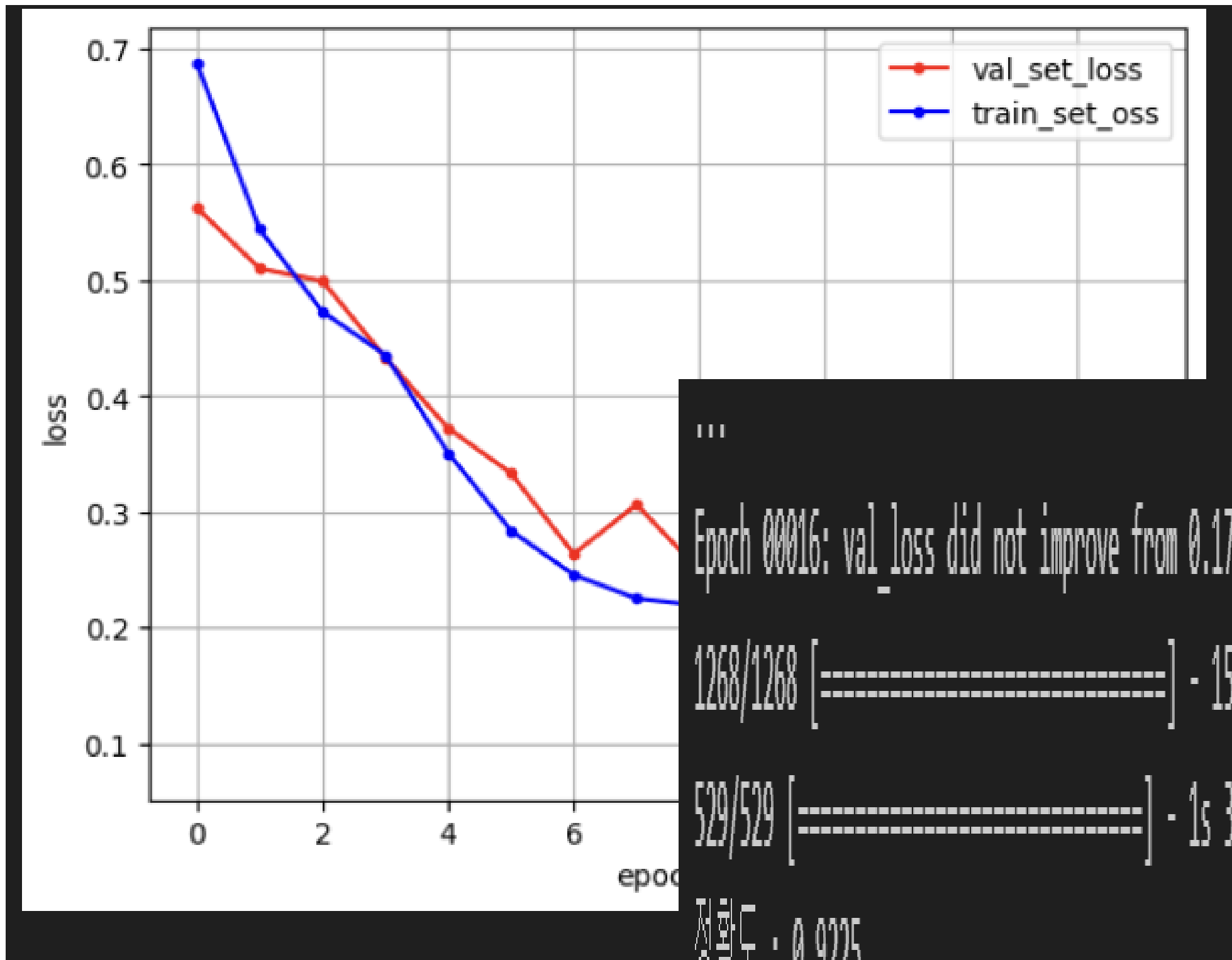
				
rotated_106.png	rotated_107.png	rotated_110.png	rotated_111.png	rotated_112.png
				
rotated_118.png	rotated_123.png	rotated_124.png	rotated_128.png	rotated_131.png
				
rotated_132.png	rotated_136.png	rotated_137.png	rotated_143.png	rotated_144.png
				
rotated_145.png	rotated_146.png	rotated_147.png	rotated_150.png	rotated_151.png

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 64, 64, 64)	1792
max_pooling2d (MaxPooling2D)	(None, 32, 32, 64)	0
dropout (Dropout)	(None, 32, 32, 64)	0
conv2d_1 (Conv2D)	(None, 32, 32, 128)	73856
max_pooling2d_1 (MaxPooling2D)	(None, 16, 16, 128)	0
dropout_1 (Dropout)	(None, 16, 16, 128)	0
conv2d_2 (Conv2D)	(None, 16, 16, 256)	295168
max_pooling2d_2 (MaxPooling2D)	(None, 8, 8, 256)	0
dropout_2 (Dropout)	(None, 8, 8, 256)	0









```
...  
Epoch 00016: val_loss did not improve from 0.17957  
1268/1268 [=====] - 15s 12ms/sample - loss: 0.0813 - acc: 0.9748 - val_loss: 0.1996 - val_acc: 0.9369  
529/529 [=====] - 1s 3ms/sample - loss: 0.2440 - acc: 0.9225  
정확도 : 0.9225
```



📁 > 내 PC > 로컬 디스크 (C:) > testimage > guess



photo\_1.png



photo\_2.png



photo\_3.png

해당 photo\_1.png 이미지는 pet로 추정됩니다.

해당 photo\_2.png 이미지는 pet로 추정됩니다.

해당 photo\_3.png 이미지는 can로 추정됩니다.

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**Thank You** for Watching

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