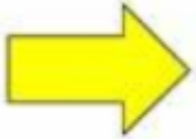
Study 2

GDSC AI-ML Group 6

One Hot Encoding (Vector)

Color
Red
Red
Yellow
Green
Yellow



Red	Yellow	Green
1	0	0
1	0	0
0	1	0
0	0	1

단 하나의 항목만 1, 나머지는 0

Results

MNIST Dataset

[0,0,0,0,0,0,0,1,0,0]

Prostate Cancer

[1, 0]

Image with NumPy (Gray Scale)

30	30	0
0	10	32
255	255	128

np.array([30,30,0,0,10,32,255,255,128])

Shape = 3 x 3 x 1

Image with NumPy (RGB pixels)

R array

30	30	0
0	10	32
255	255	128

G array

30	30	0
0	10	32
255	255	128

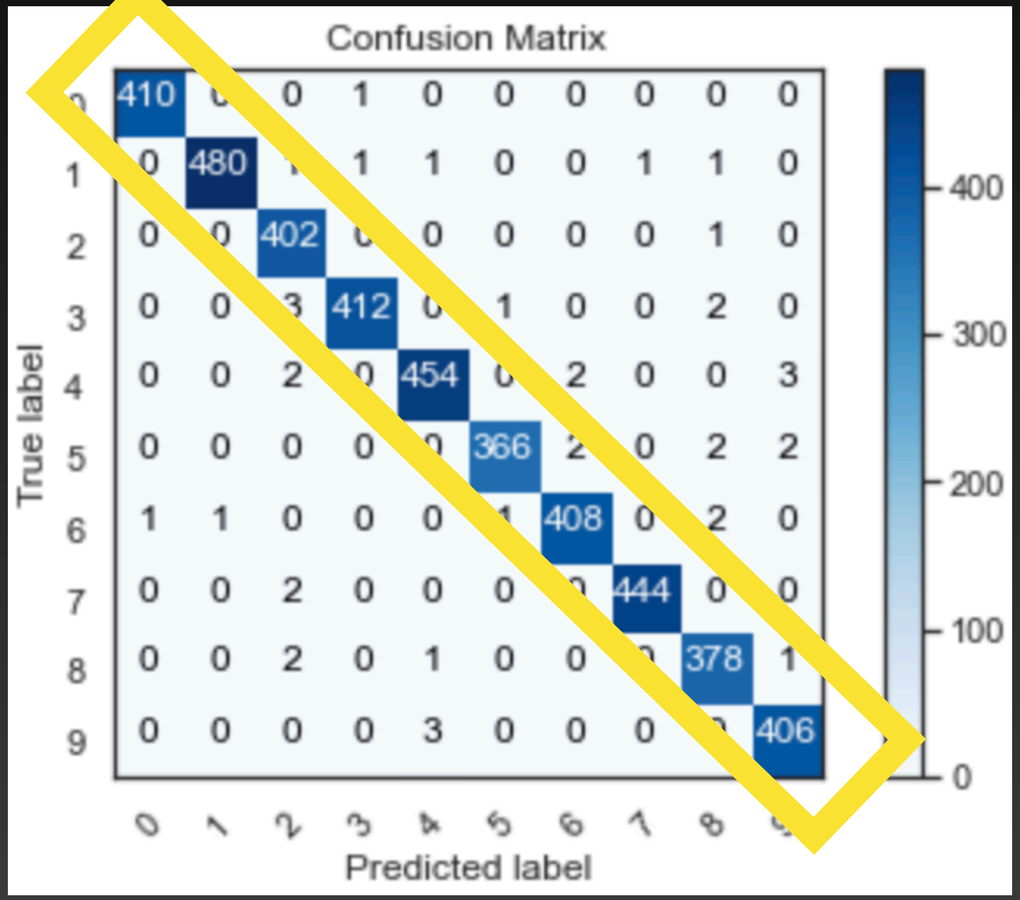
B array

30	30	0
0	10	32
255	255	128

Shape : 3 x 3 x 3

ImageDataGenerator()

Confusion Matrix



ReduceLROnPlateau()

```
ReduceLROnPlateau(monitor='val_acc',
                  patience = 3,
                  verbose = 1,
                  factor = 0.5,
                  min_lr = 0.00001)
```