

ex01. 다양한 모델 훈련결과 비교

기본 Parameter

- Train Batch Size : 128
- Valid Batch Size : 128
- Num of Epoch : 10
- Loss Function : LabelSmoothingCrossEntropy()
- Optimizer : AdamW
- Learning Rate : 0.001
- Train Augmentation :

```
train_aug = A.Compose([
    A.SmallestMaxSize(max_size=224),
    A.ShiftScaleRotate(shift_limit=0.08, scale_limit=0.08, rotate_limit=20,
                       p=0.8),
    A.RandomShadow(p=.6),
    A.HorizontalFlip(p=.5),
    A.VerticalFlip(p=.5),
    A.Normalize(mean=(0.485, 0.456, 0.406), std=(0.229, 0.224, 0.255)),
    ToTensorV2(),
])
```

- Valid & Test Augmentation :

```
valid_aug = A.Compose([
    A.SmallestMaxSize(max_size=224),
    A.Normalize(mean=(0.485, 0.456, 0.406), std=(0.229, 0.224, 0.255)),
    ToTensorV2()
])
```

Result

- 모델 종류: DeiT, swin_t, ResNet18

- 모델 성능:

swin_t (94.00%) > **resnet18** (92.4%) > **DeiT** (53.6%)

- 정확도 비교:

Model Accuracy			
Epoch	DeiT	swin_t	ResNet18
1	52.2%	89.4%	90.6%
5	52.0%	89.0%	90.0%
10	52.0%	89.0%	90.2%
Test	53.6%	94.0%	92.4%