Model:

使用 Resnet18 作為 pretrain model,會使用 Resnet18 作為 pretrain model 的原因是因為用其他 Model 的運算時間太久,無法快速的微調數值,

Data Loader:

Batch size = 32

Data Augmentation:

因為資料量夠大,所以沒有像第三次作業使用這麼多的圖片變更

```
transforms_train = transforms.Compose([
  transforms. Resize((256, 256)),
  transforms. RandomCrop((224, 224)),
  transforms. ToTensor(),
  transforms. Normalize (mean=[0.485, 0.456, 0.406], std=[0.229, 0.224, 0.225]),
End of your code
# For VAL, TEST
_____
  TODO: use transforms.xxx method to do some data augmentation
   This one is for validate and test,
# NOTICE some operation we usually not use in this part
transforms_test = transforms.Compose([
     transforms. Resize((256, 256)),
     transforms. CenterCrop((224, 224)),
     transforms. ToTensor(),
     transforms. \, Normalize \, (mean=[0.\,485,\, 0.\,456,\, 0.\,406],\, std=[0.\,229,\, 0.\,224,\, 0.\,225]) \, ,
```

Define loss and optimizer:

```
# TODO: Define loss and optmizer functions
criterion1, criterion2 = nn.CrossEntropyLoss(), nn.BCEWithLogitsLoss()
optimizer = torch.optim.Adam(model.parameters(), 1r=1e-3)
scheduler = optim.1r_scheduler.StepLR(optimizer, step_size=20, gamma=0.1)
```

10epoch:1e-3 10epoch:1e-4 10epoch:1e-5 下面是我的圖:

