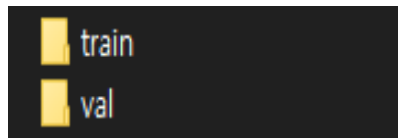


Assignment

허재호

데이터 전처리 결과



크기: 1.07GB (1,154,397,616 바이트)

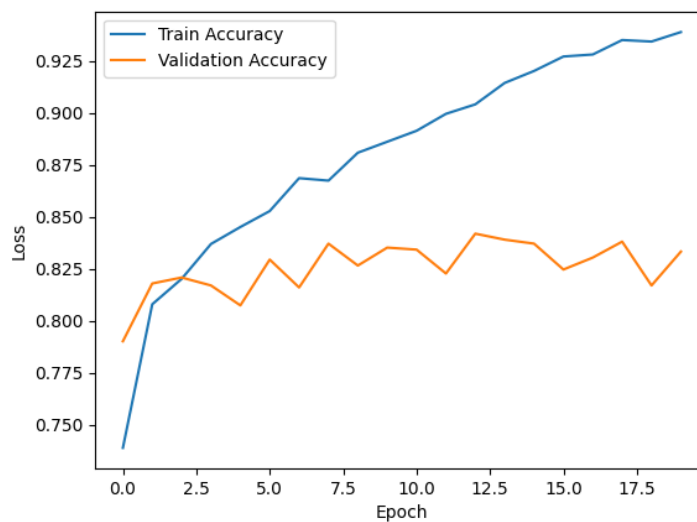
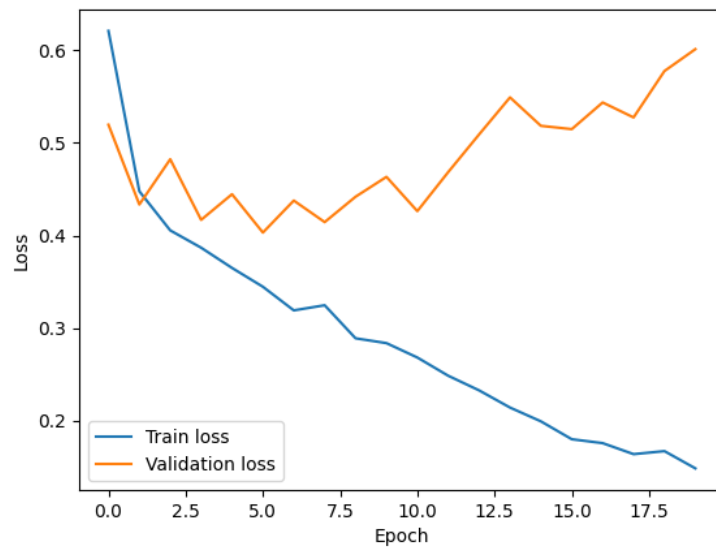
디스크 할당 크기: 1.08GB (1,165,070,336 바이트)

내용: 파일 5,216, 폴더 8

학습 결과

```
Epoch [1/20], Train Loss : 0.6211, Train Acc : 0.7390, Val Loss : 0.5197, Val Acc : 0.7902
Epoch [2/20], Train Loss : 0.4477, Train Acc : 0.8080, Val Loss : 0.4335, Val Acc : 0.8180
Epoch [3/20], Train Loss : 0.4054, Train Acc : 0.8202, Val Loss : 0.4823, Val Acc : 0.8209
Epoch [4/20], Train Loss : 0.3867, Train Acc : 0.8370, Val Loss : 0.4168, Val Acc : 0.8170
Epoch [5/20], Train Loss : 0.3649, Train Acc : 0.8452, Val Loss : 0.4446, Val Acc : 0.8075
Epoch [6/20], Train Loss : 0.3445, Train Acc : 0.8528, Val Loss : 0.4031, Val Acc : 0.8295
Epoch [7/20], Train Loss : 0.3190, Train Acc : 0.8686, Val Loss : 0.4377, Val Acc : 0.8161
Epoch [8/20], Train Loss : 0.3245, Train Acc : 0.8674, Val Loss : 0.4144, Val Acc : 0.8372
Epoch [9/20], Train Loss : 0.2888, Train Acc : 0.8809, Val Loss : 0.4418, Val Acc : 0.8266
Epoch [10/20], Train Loss : 0.2836, Train Acc : 0.8861, Val Loss : 0.4633, Val Acc : 0.8352
Epoch [11/20], Train Loss : 0.2680, Train Acc : 0.8914, Val Loss : 0.4263, Val Acc : 0.8343
Epoch [12/20], Train Loss : 0.2483, Train Acc : 0.8996, Val Loss : 0.4685, Val Acc : 0.8228
Epoch [13/20], Train Loss : 0.2325, Train Acc : 0.9041, Val Loss : 0.5092, Val Acc : 0.8420
Epoch [14/20], Train Loss : 0.2140, Train Acc : 0.9144, Val Loss : 0.5492, Val Acc : 0.8391
```

```
Epoch [15/20], Train Loss : 0.1990, Train Acc : 0.9202, Val Loss : 0.5185, Val  
Acc : 0.8372  
Epoch [16/20], Train Loss : 0.1797, Train Acc : 0.9271, Val Loss : 0.5149, Val  
Acc : 0.8247  
Epoch [17/20], Train Loss : 0.1755, Train Acc : 0.9281, Val Loss : 0.5437, Val  
Acc : 0.8305  
Epoch [18/20], Train Loss : 0.1636, Train Acc : 0.9350, Val Loss : 0.5275, Val  
Acc : 0.8381  
Epoch [19/20], Train Loss : 0.1669, Train Acc : 0.9343, Val Loss : 0.5777, Val  
Acc : 0.8170  
Epoch [20/20], Train Loss : 0.1482, Train Acc : 0.9389, Val Loss : 0.6013, Val  
Acc : 0.8333
```



테스트 결과

Test Set : Acc [879/1044] 84%

학습에 사용한 하이퍼 파라미터

```
parser.add_argument("--epochs", type=int, default=20,
                    help="number of epochs for training")
parser.add_argument("--batch_size", type=int, default=64,
                    help="batch size for training and validation")
parser.add_argument("--num_workers", type=int, default=4,
                    help="number of workers for training and validation")
parser.add_argument("--learning_rate", type=float, default=1e-4,
                    help="learning rate for optimizer")
parser.add_argument("--weight_decay", type=float, default=1e-2,
                    help="weight decay for optimizer")

self.model = efficientnet_v2_s(weights=EfficientNet_V2_S_Weights.DEFAULT)

optimizer = Lion(self.model.parameters(), lr=args.learning_rate,
weight_decay=args.weight_decay)
```