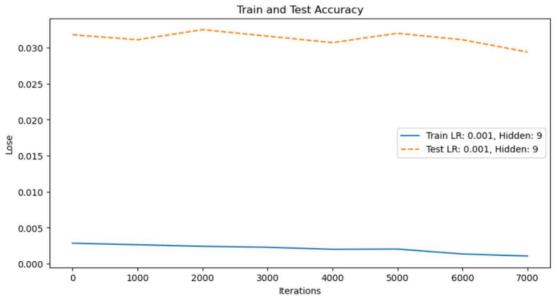
## 인공지능개론 과제 #1 하이퍼파라미터 튜닝

(꼭 PDF로 변환후 제출하기)

ICT 융합공학부 20학번 박준형 / ICT 융합공학부 20학번 김정호

```
Iteration: 0. Train Acc: 0.157616666666665. Test Acc: 0.1568
Iteration: 1000, Train Acc: 0.930166666666667, Test Acc: 0.9245
Iteration: 2000, Train Acc: 0.9479166666666666, Test Acc: 0.9412
Iteration: 3000, Train Acc: 0.958066666666666, Test Acc: 0.9482
Iteration: 4000, Train Acc: 0.959216666666667, Test Acc: 0.9498
Iteration: 5000, Train Acc: 0.96646666666667, Test Acc: 0.9554
Iteration: 6000, Train Acc: 0.969633333333333, Test Acc: 0.9542
Iteration: 7000, Train Acc: 0.971666666666667, Test Acc: 0.9557
Iteration: 8000, Train Acc: 0.974683333333333, Test Acc: 0.9585
Iteration: 9000, Train Acc: 0.9772166666666666, Test Acc: 0.9628
Iteration: 0, Train Acc: 0.98035, Test Acc: 0.9626
Iteration: 1000, Train Acc: 0.981666666666667, Test Acc: 0.9603
Iteration: 2000, Train Acc: 0.9832, Test Acc: 0.9634
Iteration: 3000, Train Acc: 0.9826833333333334, Test Acc: 0.9621
                                                                                        Learning Rate = 0.001
Iteration: 4000, Train Acc: 0.98443333333334, Test Acc: 0.964
Iteration: 5000, Train Acc: 0.987266666666666, Test Acc: 0.9642
Iteration: 6000, Train Acc: 0.987616666666667, Test Acc: 0.9645
Iteration: 7000, Train Acc: 0.988816666666667, Test Acc: 0.9646
Iteration: 8000, Train Acc: 0.98825, Test Acc: 0.9644
                                                                                                Hidden Size = 9
Iteration: 9000, Train Acc: 0.988766666666667, Test Acc: 0.9661
Iteration: 0, Train Acc: 0.991, Test Acc: 0.9656
Iteration: 1000, Train Acc: 0.991516666666667, Test Acc: 0.9674
                                                                                             Affine계층 => 3층
Iteration: 2000, Train Acc: 0.9917, Test Acc: 0.9676
Iteration: 3000, Train Acc: 0.993116666666666, Test Acc: 0.9666
Iteration: 4000, Train Acc: 0.9926, Test Acc: 0.9686
Iteration: 5000, Train Acc: 0.992116666666666, Test Acc: 0.9684
Iteration: 6000, Train Acc: 0.993566666666667, Test Acc: 0.9674
Iteration: 7000, Train Acc: 0.99408333333333, Test Acc: 0.967
Iteration: 8000, Train Acc: 0.9939, Test Acc: 0.9679
Iteration: 9000, Train Acc: 0.99435, Test Acc: 0.9674
Iteration: 0, Train Acc: 0.9957166666666667, Test Acc: 0.9681
                                                                                 훈련 정확도 => 99% 이상
Iteration: 1000, Train Acc: 0.996233333333333, Test Acc: 0.9689
Iteration: 2000, Train Acc: 0.994616666666667, Test Acc: 0.9654
Iteration: 3000, Train Acc: 0.996333333333333, Test Acc: 0.9674
Iteration: 5000, Train Acc: 0.996283333333333, Test Acc: 0.9687
                                                                              테스트 정확도 => 97% 이상
Iteration: 6000, Train Acc: 0.996466666666666, Test Acc: 0.9693
Iteration: 7000, Train Acc: 0.996583333333334, Test Acc: 0.9693
Iteration: 8000, Train Acc: 0.996833333333333, Test Acc: 0.9682
Iteration: 9000, Train Acc: 0.996433333333333. Test Acc: 0.9671
Iteration: 0, Train Acc: 0.99715, Test Acc: 0.9682
Iteration: 1000, Train Acc: 0.9973666666666666, Test Acc: 0.9689
Iteration: 2000, Train Acc: 0.997583333333334, Test Acc: 0.9675
Iteration: 3000, Train Acc: 0.997716666666667, Test Acc: 0.9684
Iteration: 4000, Train Acc: 0.998, Test Acc: 0.9693
Iteration: 5000, Train Acc: 0.997966666666667, Test Acc: 0.968
Iteration: 6000, Train Acc: 0.99865, Test Acc: 0.9689
Iteration: 7000, Train Acc: 0.998933333333333. Test Acc: 0.9706
Learning Rate: 0.001. Hidden Size: 9
```



Iteration: 0, Train Acc: 0.1576166666666665, Test Acc: 0.1568 Iteration: 1000, Train Acc: 0.930166666666667, Test Acc: 0.9245 Iteration: 2000, Train Acc: 0.947916666666666, Test Acc: 0.9412 Iteration: 3000, Train Acc: 0.958066666666666, Test Acc: 0.9482 Iteration: 4000, Train Acc: 0.959216666666667, Test Acc: 0.9498 Iteration: 5000, Train Acc: 0.96646666666667, Test Acc: 0.9554 Iteration: 6000, Train Acc: 0.9696333333333333. Test Acc: 0.9542 Iteration: 7000, Train Acc: 0.971666666666667, Test Acc: 0.9557 Iteration: 8000, Train Acc: 0.974683333333333. Test Acc: 0.9585 Iteration: 9000, Train Acc: 0.9772166666666666, Test Acc: 0.9628 Iteration: 0, Train Acc: 0.98035, Test Acc: 0.9626 Iteration: 1000, Train Acc: 0.981666666666667, Test Acc: 0.9603 Iteration: 2000, Train Acc: 0.9832, Test Acc: 0.9634 Iteration: 3000, Train Acc: 0.982683333333334, Test Acc: 0.9621 Iteration: 4000, Train Acc: 0.98443333333334, Test Acc: 0.964 Iteration: 5000, Train Acc: 0.987266666666666, Test Acc: 0.9642 Iteration: 6000, Train Acc: 0.987616666666667, Test Acc: 0.9645 Iteration: 7000, Train Acc: 0.988816666666667, Test Acc: 0.9646 Iteration: 8000, Train Acc: 0.98825, Test Acc: 0.9644 Iteration: 9000, Train Acc: 0.988766666666667, Test Acc: 0.9661 Iteration: 0, Train Acc: 0.991, Test Acc: 0.9656 Iteration: 1000, Train Acc: 0.991516666666667, Test Acc: 0.9674 Iteration: 2000, Train Acc: 0.9917, Test Acc: 0.9676 Iteration: 3000, Train Acc: 0.993116666666666, Test Acc: 0.9666 Iteration: 4000, Train Acc: 0.9926, Test Acc: 0.9686 Iteration: 5000, Train Acc: 0.992116666666666, Test Acc: 0.9684 Iteration: 6000, Train Acc: 0.993566666666667, Test Acc: 0.9674 Iteration: 7000, Train Acc: 0.994083333333333, Test Acc: 0.967 Iteration: 8000, Train Acc: 0.9939, Test Acc: 0.9679 Iteration: 9000, Train Acc: 0.99435, Test Acc: 0.9674 Iteration: 0, Train Acc: 0.995716666666667, Test Acc: 0.9681 Iteration: 1000, Train Acc: 0.996233333333333, Test Acc: 0.9689 Iteration: 2000, Train Acc: 0.994616666666667, Test Acc: 0.9654 Iteration: 3000, Train Acc: 0.996333333333333, Test Acc: 0.9674 Iteration: 4000, Train Acc: 0.995166666666666, Test Acc: 0.9689 Iteration: 5000, Train Acc: 0.996283333333333, Test Acc: 0.9687 Iteration: 6000, Train Acc: 0.996466666666666, Test Acc: 0.9693 Iteration: 7000, Train Acc: 0.996583333333334, Test Acc: 0.9693 Iteration: 8000, Train Acc: 0.996833333333333, Test Acc: 0.9682 Iteration: 9000, Train Acc: 0.996433333333333, Test Acc: 0.9671 Iteration: 0, Train Acc: 0.99715, Test Acc: 0.9682 Iteration: 1000, Train Acc: 0.997366666666666, Test Acc: 0.9689 Iteration: 2000, Train Acc: 0.99758333333334, Test Acc: 0.9675 Iteration: 3000, Train Acc: 0.9977166666666667, Test Acc: 0.9684 Iteration: 4000, Train Acc: 0.998, Test Acc: 0.9693 Iteration: 5000, Train Acc: 0.997966666666667, Test Acc: 0.968 Iteration: 6000, Train Acc: 0.99865, Test Acc: 0.9689

Iteration: 7000, Train Acc: 0.99893333333333, Test Acc: 0.9706

Learning Rate: 0.001, Hidden Size: 9

## <- 정확한 로그 내용입니다.