Hyperparameter	Default setting Experiment1			Experi	
learning_rate	0.001	0.01	0.1	0.001	
batch_size	32	32	32	16	
epochs	10	10	10	10	
dropout_rate	0.2	0.2	0.2	0.2	
hidden_layer_size	64	64	64	64	
Test Accuracy	0.976400018	0.957099974	0.395099998	0.974799991	
Training Time	23.854331100010 22.08665529999 22.01153550005: 48.446548400				
Hyperparameter	Default Setting Experiment6			Experi	
learning_rate	0.001	0.01	0.1	0.001	
batch_size	32	32	32	128	
epochs	10	20	40	10	
dropout_rate	0.2	0.2	0.2	0.2	
hidden_layer_size	64	64	64	256	
Test Accuracy	0.976400018	0.957099974	0.499300003	0.980000019	
Training Time	23.85433110001035.0569537000257.66288029996			7.980868	
Hyperparameter	Default Setting	Experiment10		Experin	
learning_rate	0.001	0.00001	0.00001	0.001	
batch_size	32	32	32	32	
epochs	10	10	100	10	
dropout_rate	0.2	0.2	0.2	0	
hidden_layer_size	64	64	64	64	
Test Accuracy	0.976400018	0.900399983	0.951099992	0.974900007	
Training Time	23.854331100010	15.1367163	143.4568245	14.7178486	

ment2	Experim	ent3		Experiment4		Experim
0.001	0.001	0.001	0.001	0.001	0.001	0.001
64	32	32	32	32	32	32
10	5	20	10	10	10	10
0.2	0.2	0.2	0.4	0.8	0.95	0.2
64	64	64	64	64	64	16
0.973999977	0.968400002	0.976199985	0.9713	0.93730003	0.8791	0.974900007

 $16.07595600001511.932146100094\, 44.134347399\, 16.261028(15.968310900\, 15.771401\, 16.016044100)$

ment7	Experim	Experiment9	
0.001	0.001	0.001	0.001
256	32	1024	4096
10	2	2	20
0.2	0.2	0.2	0.2
512	64	64	4096
0.980099976	0.959200025	0.912899971	0.980000002
8.2417537	3.5206199	0.9924654	47.2603804

nent11

0.001

32

10

0 4096

0.985000014

278.3101474

```
ent5
0.001
32
10
0.2
128
0.9772
20.343311400036328 seconds
```