

Hyperparameter	Default Setting	Experiment 1		Experiment 2		Experiment 3		
learning_rate	0.001	0.01	0.1	0.001	0.001	0.001	0.001	
batch_size	32	32	32	16	64	32	32	
epochs	10	10	10	10	10	5	20	
dropout_rate	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
hidden_layer_size	64	64	64	64	64	64	64	
Accuracy	97.32%	95.49%	42.94%	97.46%	97.44%	97.32%	97.56%	
Training Tlme	33.16 s	32.79 s	32.38 s	49.95 s	21.01 s	16.12 s	63.10 s	
Hyperparameter	Default Setting	Experiment 4			Experiment 5		Experiment 6	
learning_rate	0.001	0.001	0.001	0.001	0.001	0.001	0.01	0.1
batch_size	32	32	32	32	32	32	32	32
epochs	10	10	10	10	10	10	20	40
dropout_rate	0.2	0.4	0.8	0.95	0.2	0.2	0.2	0.2
hidden_layer_size	64	64	64	64	32	128	64	64
Accuracy	97.32%	97.00%	94.04%	88.71%	95.97%	98.12%	96.33%	29.10%
Training Time	33.16 s	32.62 s	32.44 s	33.79 s	20.82 s	38.82 s	63.74 s	127.87 s
Hyperparameter	Default Setting	Experiment 7		Experiment 8		Experiment 9		
learning_rate	0.001	0.001	0.001	0.001	0.001	0.001		
batch_size	32	128	256	32	1024	4096		
epochs	10	10	10	2	2	20		
dropout_rate	0.2	0.2	0.2	0.2	0.2	0.2		
hidden_layer_size	64	256	512	64	64	4096		
Accuracy	97.32%	98.17%	98.19%	96.06%	90.91%	98.06%		
Training Time	33.16 s	16.00 s	19.46 s	7.30 s	1.25 s	68.69 s		