

## Model Performance Across Hyperparameters

Activation Function	Train Accuracy	Test Accuracy	LR	Epochs	Layers	Hidden Nodes	Bais
Sigmoid	100	100	0.1	500	1	10	yes
Sigmoid	82.22	78.33	0.1	200	2	5,10	yes
Sigmoid	70	68.33	0.05	700	3	12,10,5	yes
Sigmoid	97.78	98.33	0.05	500	2	10,10	NO
Sigmoid	100	100	0.1	500	1	12	NO
Tanh	100	100	0.05	100	1	5	yes
Tanh	67.78	68.33	0.05	500	3	2,5,1	yes
Tanh	94.44	95	0.1	250	2	1,10	yes
Tanh	66.67	66.67	0.1	250	2	1,10	NO
Tanh	100	100	0.1	100	3	6,12,18	NO