Number of Epochs I	mage Dimensions C	CL1 Filters	CL2 Filters	CL3 Filters	CL4 Filters Add	litional layers CL1 Activation Function	CL2 Activation Function	CL3 Activation Function	batch	dropout	Training Accuracy	Test Accuracy	NOTES
30	200,200	160	64	192	96	2 relu	sigmoid	relu	32	0.3	79.62%	64.50%	I configured a Keras Tuner to automate the hyper param tuning.
20	150,150	32	64	128	128 N/A	relu	relu	relu	32	0.5		64.84%	
100	150,150	32	64	128	128 N/A	relu	relu	relu	32	0.5		66.41%	
30	300,300	32	64	128	128 N/A	relu	relu	relu	32	0.3		64.06%	
25	200,200	32	64	128	128 N/A	relu	relu	relu	25	0.5		61.72%	
35	200,200	32	64	128	128	2 relu	relu	relu	35	0.6		61.98%	
10	224,224 3	32x2	64	128	N/A N/A	relu	relu	relu	32	0.5		45.31%	VGG model (blocks as layers)
25	224,224 3	32x2	64	128	N/A N/A	relu	relu	relu	32	0.5		62.24%	VGG model (blocks as layers)
50	224,224 3	32x2	64	128	N/A N/A	relu	relu	relu	32	0.5		67.19%	VGG model (blocks as layers)
25	250,250	32	64	128	128	relu	relu	relu		0.5		65.62%	Conv2D
25	250,250	32	64	128	128	relu	relu	relu	32	0.25		67.19%	Conv2D - grayscale
100	224,224 3	32x2	64	128	N/A N/A	relu	relu	relu	32	0.5		70.83%	VGG model (blocks as layers)
100	224,224 3	32x3	64	128	256 N/A	relu	relu	relu	32	0.5		70.57%	VGG model (blocks as layers)
96	500,500 3	32x3	64	128	128	relu	relu	relu	32	0.25	96.8	67.71	Conv2D
10	224,224 3	32x3	64	128	N/A N/A	relu	relu	relu	32	0.5		63.80%	Binary class (VGG)
10	224,224	32	64	128	128 N/A	relu	relu	relu	32	0.5		72.66%	Binary class (NOT VGG)
10	224,224	32	64	128	128 N/A	relu	relu	relu	32	0.5		89.58%	Binary Class (Output Activation function changed to sigmoid)
30	224,224	32	64	128	128 N/A	relu	relu	relu	32	0.5		79.95%	Value loss spikes at 20 epochs, reducing epochs in next trail
18	224,224	32	64	128	128 N/A	relu	relu	relu	32	0.5		85.94%	Value loss spiked around 5-7 epochs.
10	224,224	32	64	128	128 N/A	relu	relu	relu	32	0.5		71%	
10	250,250	32	64	128	128 N/A	relu	relu	relu	32	0.25		62.50%	
25	250,250	32	64	64	128 N/A	relu	relu	relu	32	0.25		66.15%	
	30 20 100 30 25 35 55 10 25 50 25 100 100 100 96 110 10 10 30 18	30 200,200 20 150,150 100 150,150 30 300,300 25 200,200 35 200,200 10 224,224 35 25 250,250 25 250,250 26 25 250,250 100 224,224 31 100 224,224 31 224,224 32 24,224 330 224,224 34 224,224 35 224,224 36 224,224 37 224,224 38 224,224 39 224,224	30	30 200,200 160 64 20 150,150 32 64 100 150,150 32 64 30 300,300 32 64 25 200,200 32 64 35 200,200 32 64 10 224,224 32x2 64 25 220,200 32 64 26 224,224 32x2 64 27 25 224,224 32x2 64 28 25 250,250 32 64 28 25 250,250 32 64 29 25 250,250 32 64 20 224,224 32x2 64 20 25 250,250 32 64 21 00 224,224 32x2 64 22 24 23x3 64 23 25 250,250 32 64 25 250,250 32 64 26 250,250 32 64 27 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	30	30	30	30 200,200 160 64 192 96 2 relu sigmoid	30 200,200 160 64 192 96 2 relu sigmoid relu relu 20 150,150 32 64 128 128 N/A relu relu	30 200,200 160 64 192 96 2 relu sigmoid relu 32	30 200,200 160 64 192 96 2 relu sigmoid relu 32 0.3	30	30 200,200 160 64 192 96 2 retu sigmoid retu 32 0.3 79.62% 64.50%