Test	Number of Epochs I	mage Dimensions	CL1 Filters	CL2 Filters	CL3 Filters CL4	Filters	Additional layers C	L1 Activation Function	CL2 Activation Function	CL3 Activation Function	batch	dropout	Test Accuracy	NOTES
TZ1	30	200,200	160	64	192	96	2 re	elu	sigmoid	relu	32	0.3	64.50%	I configured a Keras Tuner to automate the hyper param tuning.
DB1	20	150,150	32	64	128	128	N/A re	elu	relu	relu	32	0.5	64.84%	
DB2	100	150,150	32	64	128	128	N/A re	elu	relu	relu	32	0.5	66.41%	
DB3	30	300,300	32	64	128	128	N/A re	elu	relu	relu	32	0.3	64.06%	
DB4	25	200,200	32	64	128	128	N/A re	elu	relu	relu	25	0.5	61.72%	
DB5	35	200,200	32	64	128	128	2 re	elu	relu	relu	35	0.6	61.98%	
DB6	10	224,224	32x2	64	128 N/A		N/A re	elu	relu	relu	32	0.5	45.31%	VGG model (blocks as layers)
DB7	25	224,224	32x2	64	128 N/A		N/A re	elu	relu	relu	32	0.5	62.24%	VGG model (blocks as layers)
DB8	50	224,224	32x2	64	128 N/A		N/A re	elu	relu	relu	32	0.5	67.19%	VGG model (blocks as layers)
DD1	25	250,250	32	64	128	128	re	elu	relu	relu		0.5	65.62%	Conv2D
DD2	25	250,250	32	64	128	128	re	elu	relu	relu	32	0.25	67.19%	Conv2D - grayscale
DB9	100	224,224	32x2	64	128 N/A		N/A re	elu	relu	relu	32	0.5	70.83%	VGG model (blocks as layers)
DB10	100	224,224	32x3	64	128	256	N/A re	elu	relu	relu	32	0.5	70.57%	VGG model (blocks as layers)
DD3	96	500,500	32x3	64	128	128	re	elu	relu	relu	32	0.25	67.71	Conv2D
DB11	10	224,224	32x3	64	128 N/A		N/A re	elu	relu	relu	32	0.5	63.80%	Binary class (VGG)
DB12	10	224,224	32	64	128	128	N/A re	elu	relu	relu	32	0.5	72.66%	Binary class (NOT VGG)
DB13	10	224,224	32	64	128	128	N/A re	elu	relu	relu	32	0.5	89.58%	Binary Class (Output Activation function changed to sigmoid)
TZ2	30	224,224	32	64	128	128	N/A re	elu	relu	relu	32	0.5	79.95%	Value loss spikes at 20 epochs, reducing epochs in next trail
TZ3	18	224,224	32	64	128	128	N/A re	elu	relu	relu	32	0.5	85.94%	Value loss spiked around 5-7 epochs.
TZ4	10	224,224	32	64	128	128	N/A re	elu	relu	relu	32	0.5	71%	
DD4	10	250,250	32	64	128	128	N/A re	elu	relu	relu	32	0.25	62.50%	
DD5	25	250,250	32	64	64	128	N/A re	elu	relu	relu	32	0.25	66.15%	
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