

The two hyperparameters tuned in project 3 were the learning rate values and the filter size used in the convolution neural network								
The top 3 result, with a minimum of 58.999 were compared against each other again, with the best being learning rate .06 with filter size 128								
		Filter Size						
		32	48	64	80	96	112	128
Learning Rates	0.001	23.00000042	34.99999994	30.00000119	30.00000119	33.00000131	28.00000012	37.99999952
	0.005	40.00000006	40.00000006	41.99999869	43.00000072	40.99999964	44.99999881	36.00000143
	0.01	49.00000095	46.00000083	40.99999964	38.99999857	43.00000072	47.99999893	40.00000006
	0.02	50	47.99999893	41.99999869	36.00000143	47.99999893	49.00000095	46.99999988
	0.025	44.99999881	47.99999893	47.99999893	50	50.99999905	40.99999964	60.00000238
	0.05	44.99999881	54.00000215	44.99999881	46.00000083	43.99999976	47.99999893	52.99999714
	0.06	46.99999988	47.99999893	50.99999905	47.99999893	47.99999893	58.99999738	61.00000143
	0.075	43.99999976	46.00000083	46.99999988	44.99999881	56.99999928	56.00000024	54.00000215
	0.1	46.00000083	54.00000215	44.99999881	44.99999881	34.99999994	40.99999964	46.99999988
	0.2	36.00000143	31.99999928	47.99999893	37.00000048	43.00000072	27.00000107	36.00000143
	0.5	10.00000015	10.99999994	10.99999994	10.00000015	10.00000015	10.00000015	10.00000015