

Tobby Lie
 September 2, 2019
 CSCI-5931
 Programming Assignment 1

Report									
	Configurations	Accuracy Train set	Accuracy Test set	Precision Train set	Precision Test set	Recall Train set	Recall Test set	F1-Score Train set	F1-Score Test set
ANN-1	8x4, sigmoid 4x5, sigmoid 5x4, sigmoid 4x5, sigmoid 5x4, sigmoid 4x1, sigmoid Epoch=100 Scaling=yes	0.8601	0.8444	0.7528	0.6428	0.4526	0.4007	0.5414	0.4670
ANN-2	8x11, relu 11x9, relu 9x5, relu 5x3, sigmoid 3x1, sigmoid Epoch=100 Scaling=yes	0.8664	0.8372	0.7796	0.6307	0.4792	0.3798	0.5654	0.4467
ANN-3	8x11, sigmoid 11x15, sigmoid 15x5, sigmoid 5x30, sigmoid 30x1, sigmoid Epoch=1000 Scaling=yes	0.8681	0.8433	0.7944	0.6696	0.4642	0.3807	0.5588	0.4618
ANN-4	8x200, sigmoid 200x150, sigmoid 150x50, relu 50x120, sigmoid 120x1, sigmoid Epoch=100 Scaling=yes	0.8643	0.8400	0.7789	0.6642	0.4605	0.3679	0.5495	0.4486

NOTE: F1-SCORE NOT EXACT VALUE BECAUSE K.EPSILON IS UTILIZED IN DENOMINATOR IN ORDER TO ENSURE THERE ARE NO DIVIDE BY ZERO ERRORS SO AS EPOCH INCREASES THE VALUE OF F1-SCORE BECOMES INFLATED.