Classification Accuracies

Accuracies								
	Algorithm Used							
Dataset Name	ADMM based				Backpropagation			
	Converged @ Iteration	Train Acc.	Test Acc.	Time (sec)	Converged @ Iteration	Train Acc.	Test Acc.	Time (sec)
Iris	8	79.46	84.21	0.005642055003	164	65.18	71.05	0.05820320699
Digits	30	94.36	94.44	0.723034804	2954	69.19	70.22	3.186370346
Wine	281	98.50	97.78	0.309803636	7153	54.14	57.78	2.427526336
Breast Cancer	927	94.84	95.10	2.916816378	592	36.85	37.76	0.239096525
TicTacToe	30	68.94	70.83	0.03112625005	1057	78.27	70	0.419863188
Soybean Small	10	100	91.67	0.015892801	147	62.86	41.67	0.050444327
Shuttle Landing Control	10	100	75	0.006294296996	82	90.91	50	0.031652087
Glass	116	59.38	59.26	0.112116283	289	31.25	18.52	0.105214636
Seeds	43	97.45	96.23	0.03205933	559	91.08	90.57	0.203914481
Fertility	21	88	88	0.01755862801	76	90.67	80	0.03105550801

Hyperparameter selection and dataset information					
Dataset Name	Input			Hyperparameters	
	Num Datapoints (Test + Train)	Input feature dimension	Classes/Output dimension	Hidden layer dimension	Threshold	mu
Iris	150 (38 + 112)	4	3	6	1.00E-03	1
Digits	1797 (450 + 1347)	64	10	36	1.00E-03	1
Wine	178 (45 + 133)	13	3	6	1.00E-03	1
Breast Cancer	569 (143 + 426)	30	2	6	1.00E-03	1
TicTacToe	958 (240 + 718)	9	2	6	1.00E-03	1
Soybean Small	47 (12 + 35)	35	4	6	1.00E-03	1
Shuttle Landing Control	15 (4 + 11)	6	2	4	1.00E-03	1
Glass	214 (54 + 160)	9	7	8	1.00E-03	1
Seeds	210 (53 + 157)	7	3	6	1.00E-03	1
Fertility	100 (25 + 75)	9	2	5	1.00E-03	1