Dataset Name	Num Datapoints (Test + Train)	Input feature dimension	Classes/Output dimension	Hidden layer dimension	Threshold	mu	Converged @ Iteration	Train Acc.	Test Acc.	Time (sec)	Converged @ Iteration	Train Acc.	Test Acc.	Time (sec)
Iris	150 (38 + 112)	4	3	6	1.00E-03	1	8	79.46428571	84.21052632	0.005642055003	164	65.17857143	71.05263158	0.05820320699
Digits	1797 (450 + 1347)	64	10	36	1.00E-03	1	30	94.35783222	94.4444444	0.723034804	2954	69.19079436	70.2222222	3.186370346
Wine	178 (45 + 133)	13	3	6	1.00E-03	1	281	98.4962406	97.7777778	0.309803636	7153	54.13533835	57.7777778	2.427526336
Breast Cancer	569 (143 + 426)	30	2	6	1.00E-03	1	927	94.83568075	95.1048951	2.916816378	592	36.85446009	37.76223776	0.239096525
TicTacToe	958 (240 + 718)	9	2	6	1.00E-03	1	30	68.94150418	70.83333333	0.03112625005	1057	78.2729805	70	0.419863188
Soybean Small	47 (12 + 35)	35	4	6	1.00E-03	1	10	100	91.66666667	0.015892801	147	62.85714286	41.66666667	0.050444327
Shuttle Landing Control	15 (4 + 11)	6	2	4	1.00E-03	1	10	100	75	0.006294296996	82	90.90909091	50	0.031652087
Glass	214 (54 + 160)	9	7	8	1.00E-03	1	116	59.375	59.259	0.112116283	289	31.25	18.51851852	0.105214636
Seeds	210 (53 + 157)	7	3	6	1.00E-03	1	43	97.45222	96.22641	0.03205933	559	91.08280255	90.56603774	0.203914481

21

Hyperparameters

1.00E-03

Input

100 (25 + 75)

Fertility

Algorithm Used

0.01755862801

76

Backpropagation

90.66666667

80

0.03105550801

Matrix Factorization

88

88