

1 Table of results for BPIC15

Dataset	Model	Loss	Activation	Units	Mean	Sd
BPIC15	LSTM	mse	tanh	30	0.88186	0.00901
BPIC15	LSTM	bin_ce	sigmoid	30	0.88011	0.0062
BPIC15	LSTM	mse	sigmoid	30	0.87745	0.00961
BPIC15	LSTM	bin_ce-logits	sigmoid	30	0.873	0.00808
BPIC15	GRU	mse	tanh	30	0.87119	0.00646
BPIC15	GRU	bin_ce	sigmoid	30	0.86281	0.01275
BPIC15	GRU	bin_ce-logits	sigmoid	30	0.86186	0.01233
BPIC15	GRU	mse	sigmoid	30	0.86175	0.01199
BPIC15	LSTM	manhattan	tanh	30	0.82674	0.00914
BPIC15	GRU	bin_ce-logits	tanh	30	0.79931	0.0668
BPIC15	LSTM	bin_ce	tanh	30	0.79146	0.06529
BPIC15	GRU	manhattan	tanh	30	0.7808	0.01927
BPIC15	LSTM	bin_ce-logits	tanh	30	0.77942	0.06185
BPIC15	LSTM	jaccard	sigmoid	30	0.77469	0.0295
BPIC15	GRU	bin_ce	tanh	30	0.77443	0.02707
BPIC15	GRU	jaccard	sigmoid	30	0.71395	0.02849
BPIC15	LSTM	jaccard	tanh	30	0.66647	0.04536
BPIC15	GRU	jaccard	tanh	30	0.55347	0.03799
BPIC15	LSTM	manhattan	sigmoid	30	0.2409	0.04476
BPIC15	GRU	manhattan	sigmoid	30	0.21045	0.04059

2 Table of results for BPIC20

Dataset	Model	Loss	Activation	Units	Mean	Sd
BPIC20	LSTM	mse	sigmoid	30	0.88229	0.04452
BPIC20	LSTM	mse	tanh	30	0.87932	0.03199
BPIC20	LSTM	bin_ce	sigmoid	30	0.85425	0.04502
BPIC20	GRU	mse	sigmoid	30	0.82578	0.05804
BPIC20	LSTM	bin_ce-logits	sigmoid	30	0.82535	0.12731
BPIC20	GRU	mse	tanh	30	0.82011	0.0498
BPIC20	GRU	bin_ce	sigmoid	30	0.81657	0.06055
BPIC20	GRU	bin_ce-logits	sigmoid	30	0.79844	0.06325
BPIC20	LSTM	bin_ce-logits	tanh	30	0.78414	0.0658
BPIC20	GRU	bin_ce-logits	tanh	30	0.77181	0.08112
BPIC20	LSTM	bin_ce	tanh	30	0.64901	0.10812
BPIC20	LSTM	manhattan	tanh	30	0.59377	0.01662
BPIC20	GRU	bin_ce	tanh	30	0.5772	0.07842
BPIC20	GRU	manhattan	tanh	30	0.55807	0.02606
BPIC20	LSTM	jaccard	sigmoid	30	0.55467	0.01943
BPIC20	GRU	jaccard	sigmoid	30	0.54731	0.00929
BPIC20	LSTM	jaccard	tanh	30	0.4687	0.02072
BPIC20	GRU	manhattan	sigmoid	30	0.46856	0.03625
BPIC20	LSTM	manhattan	sigmoid	30	0.45977	0.01201
BPIC20	GRU	jaccard	tanh	30	0.45184	0.01054

3 Table of results for Claroline Dissimilar 10

Dataset	Model	Loss	Activation	Units	Mean	Sd
claroline-dis_10	GRU	bin_ce	sigmoid	30	0.90682	0.26949
claroline-dis_10	LSTM	mse	tanh	30	0.85624	0.1427
claroline-dis_10	LSTM	bin_ce	sigmoid	30	0.84696	0.13589
claroline-dis_10	LSTM	mse	sigmoid	30	0.80722	0.18003
claroline-dis_10	GRU	mse	sigmoid	30	0.7952	0.25956
claroline-dis_10	LSTM	bin_ce	tanh	30	0.52938	0.26764
claroline-dis_10	LSTM	manhattan	tanh	30	0.27402	0.06051
claroline-dis_10	GRU	jaccard	tanh	30	0.24965	0.2042
claroline-dis_10	LSTM	jaccard	tanh	30	0.17949	0.08726
claroline-dis_10	GRU	bin_ce-logits	sigmoid	30	0.10085	0.00153
claroline-dis_10	GRU	bin_ce-logits	tanh	30	0.10079	0.00159
claroline-dis_10	LSTM	bin_ce-logits	sigmoid	30	0.10069	0.00153
claroline-dis_10	GRU	manhattan	tanh	30	0.10038	0.00202
claroline-dis_10	GRU	manhattan	sigmoid	30	0.09994	0.00155
claroline-dis_10	LSTM	manhattan	sigmoid	30	0.09988	0.00117
claroline-dis_10	GRU	bin_ce	tanh	30	0.09956	0.00173
claroline-dis_10	LSTM	bin_ce-logits	tanh	30	0.09941	0.00102
claroline-dis_10	GRU	mse	tanh	30	0.09885	0.001
claroline-dis_10	LSTM	jaccard	sigmoid	30	0.09858	0.00163
claroline-dis_10	GRU	jaccard	sigmoid	30	0.09839	0.00173

4 Table of results for Claroline Random 10

Dataset	Model	Loss	Activation	Units	Mean	Sd
claroline-rand_10	GRU	bin_ce-logits	sigmoid	30	0.99639	0.00052
claroline-rand_10	GRU	bin_ce	sigmoid	30	0.96647	0.06421
claroline-rand_10	GRU	mse	sigmoid	30	0.93633	0.11958
claroline-rand_10	LSTM	bin_ce-logits	sigmoid	30	0.83642	0.20483
claroline-rand_10	LSTM	mse	tanh	30	0.80728	0.23673
claroline-rand_10	LSTM	mse	sigmoid	30	0.65844	0.27527
claroline-rand_10	LSTM	bin_ce	sigmoid	30	0.5763	0.23597
claroline-rand_10	LSTM	bin_ce	tanh	30	0.37878	0.23165
claroline-rand_10	LSTM	manhattan	tanh	30	0.24918	0.06746
claroline-rand_10	GRU	jaccard	tanh	30	0.12984	0.04263
claroline-rand_10	LSTM	jaccard	tanh	30	0.11929	0.03882
claroline-rand_10	GRU	manhattan	tanh	30	0.10046	0.00221
claroline-rand_10	GRU	manhattan	sigmoid	30	0.10018	0.00182
claroline-rand_10	GRU	mse	tanh	30	0.10016	0.00209
claroline-rand_10	LSTM	manhattan	sigmoid	30	0.09994	0.00139
claroline-rand_10	LSTM	bin_ce-logits	tanh	30	0.09993	0.00213
claroline-rand_10	GRU	bin_ce	tanh	30	0.09979	0.00145
claroline-rand_10	GRU	jaccard	sigmoid	30	0.09894	0.00154
claroline-rand_10	LSTM	jaccard	sigmoid	30	0.09882	0.00178
claroline-rand_10	GRU	bin_ce-logits	tanh	30	0.0984	0.00172

5 Table of results for Claroline Dissimilar 50

Dataset	Model	Loss	Activation	Units	Mean	Sd
claroline-dis_50	LSTM	bin_ce	sigmoid	30	0.70379	0.26701
claroline-dis_50	GRU	bin_ce	sigmoid	30	0.64426	0.42091
claroline-dis_50	LSTM	mse	tanh	30	0.61657	0.2294
claroline-dis_50	LSTM	mse	sigmoid	30	0.28343	0.2688
claroline-dis_50	GRU	bin_ce-logits	sigmoid	30	0.21323	0.38663
claroline-dis_50	GRU	jaccard	tanh	30	0.08452	0.03197
claroline-dis_50	GRU	bin_ce	tanh	30	0.03164	0.02985
claroline-dis_50	LSTM	bin_ce	tanh	30	0.02366	0.00772
claroline-dis_50	LSTM	bin_ce-logits	sigmoid	30	0.02017	0.00047
claroline-dis_50	GRU	bin_ce-logits	tanh	30	0.02001	0.00047
claroline-dis_50	GRU	mse	tanh	30	0.01991	0.00027
claroline-dis_50	LSTM	bin_ce-logits	tanh	30	0.01982	0.00045

6 Table of results for Claroline Random 50

Dataset	Model	Loss	Activation	Units	Mean	Sd
claroline-rand_50	LSTM	bin_ce	sigmoid	30	0.94178	0.0782
claroline-rand_50	LSTM	bin_ce-logits	sigmoid	30	0.8298	0.27052
claroline-rand_50	GRU	bin_ce	sigmoid	30	0.75005	0.30048
claroline-rand_50	LSTM	mse	sigmoid	30	0.73585	0.0991
claroline-rand_50	LSTM	mse	tanh	30	0.63381	0.03688
claroline-rand_50	GRU	mse	tanh	30	0.62004	0.00815
claroline-rand_50	GRU	mse	sigmoid	30	0.56942	0.33583
claroline-rand_50	GRU	bin_ce	tanh	30	0.39893	0.14202
claroline-rand_50	GRU	jaccard	sigmoid	30	0.23311	0.19339
claroline-rand_50	GRU	jaccard	tanh	30	0.10687	0.0295
claroline-rand_50	LSTM	jaccard	tanh	30	0.08646	0.02364
claroline-rand_50	GRU	manhattan	tanh	30	0.04156	0.01071
claroline-rand_50	LSTM	bin_ce	tanh	30	0.0269	0.01572
claroline-rand_50	GRU	manhattan	sigmoid	30	0.02007	0.00028
claroline-rand_50	GRU	bin_ce-logits	tanh	30	0.01996	0.0004
claroline-rand_50	GRU	bin_ce-logits	sigmoid	30	0.01995	0.00027
claroline-rand_50	LSTM	bin_ce-logits	tanh	30	0.01992	0.00045