Table 1: Performance Results for LogisticRegression_200samples_10features_reg0.01 Problem

Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
GD-	3.39e-1	4.45e-4	3.38e-1	3.40e-1	1668.0	0.0	1.649
WeightDecay	0.000 1	1,100 1	0.000 1	0.100 1	1000.0	0.0	110 10
GD-Nesterov	3.23e-1	6.77e-7	3.23e-1	3.23e-1	1668.0	0.0	1.649
GD-Momentum	3.23e-1	7.07e-7	3.23e-1	3.23e-1	1668.0	0.0	1.648
GD	3.97e-1	3.28e-3	3.93e-1	4.05e-1	1668.0	0.0	1.640
L-BFGS-	3.23e-1	8.38e-5	3.23e-1	3.24e-1	3146.0	0.0	1.621
Limited	0.200 1	0.000	0.200 1	0.2101	0110.0	0.0	1.021
Adam-Robust	4.12e-1	8.61e-3	3.96e-1	4.28e-1	2502.0	0.0	1.621
Adam-	3.95e-1	5.85e-3	3.84e-1	4.09e-1	2502.0	0.0	1.620
AMSGrad	0.000	0.000	0.0.0				
Adam-	3.27e-1	8.69e-4	3.25e-1	3.29e-1	2502.0	0.0	1.618
WeightDecay	0.2101	0.000 1	0.200 1	0.200 1	2002.0	0.0	1.010
Adam	3.92e-1	9.22e-3	3.75e-1	4.09e-1	2502.0	0.0	1.617
L-BFGS-	3.25e-1	7.06e-4	3.23e-1	3.26e-1	3432.2	0.0	1.407
Aggressive	0.200 1	1.000 4	0.200 1	0.200 1	0402.2	0.0	1.401
L-BFGS	3.23e-1	2.14e-5	3.23e-1	3.23e-1	2311.4	0.0	1.256
GD-	3.23e-1	4.50e-9	3.23e-1	3.23e-1	479.1	0.0	0.478
AdaptiveMomentu		4.000 0	0.200 1	0.200 1	110.1	0.0	0.110
L-BFGS-	3.23e-1	9.68e-11	3.23e-1	3.23e-1	545.5	0.0	0.324
Conservative	3.23C-1	J.00C-11	0.200-1	J.2JC-1	040.0	0.0	0.024
QQN-	3.23e-1	1.79e-12	3.23e-1	3.23e-1	360.0	0.0	0.143
GoldenSection	5.25C-1	1.750-12	0.200-1	J.2JC-1	500.0	0.0	0.140
QQN-Bisection-	3.23e-1	1.05e-12	3.23e-1	3.23e-1	110.7	0.0	0.072
1	5.256-1	1.056-12	J.2JC-1	J.2JC-1	110.7	0.0	0.012
QQN-	3.23e-1	1.34e-12	3.23e-1	3.23e-1	105.4	0.0	0.072
CubicQuadraticIn		1.546-12	J.2JC-1	J.2JC-1	105.4	0.0	0.012
QQN-Bisection-	3.23e-1	1.19e-12	3.23e-1	3.23e-1	110.7	0.0	0.066
2	5.256-1	1.196-12	J.2JC-1	J.2JC-1	110.7	0.0	0.000
QQN-	3.23e-1	1.79e-12	3.23e-1	3.23e-1	80.3	0.0	0.059
StrongWolfe	3.23e-1	1.796-12	J.2JE-1	J.2JE-1	00.3	0.0	0.059
Adam-Fast	3.24e-1	2.14e-4	3.24e-1	3.25e-1	77.0	0.0	0.050
L-BFGS-	3.23e-1	2.14e-4 2.80e-4	3.24e-1 3.23e-1	3.24e-1	86.2	0.0	0.050
MoreThuente	3.23e-1	2.000-4	3.∠3e-1	3.246-1	00.2	0.0	0.050
	4.44e-1	2.76 . 2	4.20° 1	4.40° 1	99.4	0.0	0.044
Trust Region-	4.446-1	2.76e-3	4.39e-1	4.49e-1	82.4	0.0	0.044
Conservative	7.01 - 1	0.67- 0	C TO- 1	7 56 - 1	F 0	0.0	0.002
Trust Region-	7.01e-1	2.67e-2	6.59e-1	7.56e-1	5.0	0.0	0.003
Precise Trust Paging	7.02 - 1	9.00- 9	6 6F - 1	7 59- 1	F 0	0.0	0.002
Trust Region-	7.03e-1	2.08e-2	6.65e-1	7.53e-1	5.0	0.0	0.003
Aggressive	7.01 1	0.00	C 15 1	7 59 1	F 0	0.0	0.002
Trust Region-	7.01e-1	2.90e-2	6.45e-1	7.53e-1	5.0	0.0	0.003
Standard	7.00 1	0.50	0.50 1	7.40 1	FO	0.0	0.000
Trust Region-	7.06e-1	2.50e-2	6.56e-1	7.48e-1	5.0	0.0	0.003
Adaptive							