**Momentum**

1 epoch

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.14100719424460434,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.54,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.14100719424460434

Mean accuracy scaled:0.54

Max f1 not scaled:0.15161290322580645,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 not scaled:0.14312833604084477

Mean accuracy not scaled:0.536

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.14285714285714285,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.17,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.14285714285714285

Mean accuracy scaled:0.17

Max f1 not scaled:0.5901328273244781,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.62,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.26182780770092046

Mean accuracy not scaled:0.2839999999999999

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.2916666666666667,batch\_size:1,scaling\_factor:0.01

Max accuracy scaled:0.78,batch\_size:1,scaling\_factor:0.01

Mean f1 scaled:0.20166666666666672

Mean accuracy scaled:0.512

Max f1 not scaled:0.2916666666666667,batch\_size:1,scaling\_factor:0.01

Max accuracy not scaled:0.78,batch\_size:1,scaling\_factor:0.01

Mean f1 not scaled:0.20166666666666672

Mean accuracy not scaled:0.512

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.5449956306684653,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.56,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.39766621673125896

Mean accuracy scaled:0.4920000000000001

Max f1 not scaled:0.5461792661738153,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.55,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4003415730575101

Mean accuracy not scaled:0.49000000000000005

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.6432233871584909,batch\_size:1,scaling\_factor:0.01

Max accuracy scaled:0.71,batch\_size:1,scaling\_factor:0.01

Mean f1 scaled:0.4271521401182653

Mean accuracy scaled:0.622

Max f1 not scaled:0.3731343283582089,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.6,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3731343283582089

Mean accuracy not scaled:0.6

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3937282229965157

Mean accuracy scaled:0.65

Max f1 not scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3937282229965157

Mean accuracy not scaled:0.65

10 epochs

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.14100719424460434,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.12391176381512473

Mean accuracy scaled:0.44800000000000006

Max f1 not scaled:0.14100719424460434,batch\_size:1,scaling\_factor:0.001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 not scaled:0.14021781312539106

Mean accuracy not scaled:0.46799999999999997

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.6581196581196581,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.79,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.24590964590964587

Mean accuracy scaled:0.294

Max f1 not scaled:0.7491289198606272,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.88,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.2641114982578397

Mean accuracy not scaled:0.31199999999999994

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.2619047619047619,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.22,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.22476190476190477

Mean accuracy scaled:0.198

Max f1 not scaled:0.26666666666666666,batch\_size:1,scaling\_factor:0.05

Max accuracy not scaled:0.33,batch\_size:1,scaling\_factor:0.05

Mean f1 not scaled:0.18793650793650796

Mean accuracy not scaled:0.198

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.5503667994131209,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.55,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.35757834990258425

Mean accuracy scaled:0.47000000000000003

Max f1 not scaled:0.5414989264626946,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.355804775312499

Mean accuracy not scaled:0.46799999999999997

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.8519412465263994,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.85,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4800915110902384

Mean accuracy scaled:0.628

Max f1 not scaled:0.8519412465263994,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.85,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.5309472286099999

Mean accuracy not scaled:0.668

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3937282229965157

Mean accuracy scaled:0.65

Max f1 not scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3937282229965157

Mean accuracy not scaled:0.65

50 epochs

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.14202898550724638,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.54,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.14121155249713274

Mean accuracy scaled:0.54

Max f1 not scaled:0.23797169811320754,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.16040009501832495

Mean accuracy not scaled:0.54

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.8500000000000001,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.92,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.28428571428571425

Mean accuracy scaled:0.31999999999999995

Max f1 not scaled:0.8500000000000001,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.92,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.28428571428571425

Mean accuracy not scaled:0.31999999999999995

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.24444444444444446,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.22,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.20222222222222222

Mean accuracy scaled:0.176

Max f1 not scaled:0.3,batch\_size:1,scaling\_factor:0.1

Max accuracy not scaled:0.33,batch\_size:1,scaling\_factor:0.1

Mean f1 not scaled:0.2590476190476191

Mean accuracy not scaled:0.242

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.5685371702637889,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3612124240727178

Mean accuracy scaled:0.47800000000000004

Max f1 not scaled:0.5616289592760182,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.6,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3598307818751637

Mean accuracy not scaled:0.48

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.8753331311938465,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.88,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.5693767936832651

Mean accuracy scaled:0.7060000000000001

Max f1 not scaled:0.8753331311938465,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.88,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4735740889253364

Mean accuracy not scaled:0.656

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3937282229965157

Mean accuracy scaled:0.65

Max f1 not scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3937282229965157

Mean accuracy not scaled:0.65

Nesterov 1 epoch:

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.14100719424460434,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.12723594407492875

Mean accuracy scaled:0.4720000000000001

Max f1 not scaled:0.14100719424460434,batch\_size:1,scaling\_factor:0.001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 not scaled:0.12685735498288678

Mean accuracy not scaled:0.45600000000000007

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.24475524475524477,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.25,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.1632367632367632

Mean accuracy scaled:0.18600000000000003

Max f1 not scaled:0.14285714285714285,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.17,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.14285714285714285

Mean accuracy not scaled:0.17

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.4230769230769231,batch\_size:1,scaling\_factor:0.01

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.01

Mean f1 scaled:0.20134939134939134

Mean accuracy scaled:0.31

Max f1 not scaled:0.29292929292929293,batch\_size:1,scaling\_factor:0.05

Max accuracy not scaled:0.44,batch\_size:1,scaling\_factor:0.05

Mean f1 not scaled:0.17531986531986532

Mean accuracy not scaled:0.264

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.5460569747716579,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.55,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4017135440810791

Mean accuracy scaled:0.48600000000000004

Max f1 not scaled:0.5228870278814786,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.56,batch\_size:1,scaling\_factor:0.001

Mean f1 not scaled:0.3868413682170519

Mean accuracy not scaled:0.488

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.3731343283582089,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.6,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3731343283582089

Mean accuracy scaled:0.6

Max f1 not scaled:0.3731343283582089,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.6,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3731343283582089

Mean accuracy not scaled:0.6

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3937282229965157

Mean accuracy scaled:0.65

Max f1 not scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3937282229965157

Mean accuracy not scaled:0.65

Nesterov 10 epochs:

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.17368707482993198,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.14754317036166986

Mean accuracy scaled:0.492

Max f1 not scaled:0.14317241379310347,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 not scaled:0.14144023815430415

Mean accuracy not scaled:0.47400000000000003

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.7491289198606272,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.88,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3685633255003646

Mean accuracy scaled:0.454

Max f1 not scaled:0.7473684210526316,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.83,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.2637593984962406

Mean accuracy not scaled:0.30199999999999994

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.2619047619047619,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.22,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.2257142857142857

Mean accuracy scaled:0.198

Max f1 not scaled:0.2619047619047619,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.22,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.19698412698412698

Mean accuracy not scaled:0.176

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.7076798246714681,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.71,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.4436877445846573

Mean accuracy scaled:0.532

Max f1 not scaled:0.5377126469061417,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.55,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3550475194011884

Mean accuracy not scaled:0.47000000000000003

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.8482505070993915,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.85,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.6152458744382157

Mean accuracy scaled:0.72

Max f1 not scaled:0.852147852147852,batch\_size:1,scaling\_factor:0.001

Max accuracy not scaled:0.85,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.6455970381317662

Mean accuracy not scaled:0.736

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3937282229965157

Mean accuracy scaled:0.65

Max f1 not scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3937282229965157

Mean accuracy not scaled:0.65

Nesterov 50 epochs:

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.1977177177177177,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.152349298939227

Mean accuracy scaled:0.536

Max f1 not scaled:0.14100719424460434,batch\_size:1,scaling\_factor:0.001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.001

Mean f1 not scaled:0.12551603576951526

Mean accuracy not scaled:0.47000000000000003

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.8500000000000001,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.92,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.28428571428571425

Mean accuracy scaled:0.31999999999999995

Max f1 not scaled:0.5208711433756806,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.2184599429608504

Mean accuracy not scaled:0.244

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.2619047619047619,batch\_size:1,scaling\_factor:0.1

Max accuracy scaled:0.22,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.19904761904761906

Mean accuracy scaled:0.176

Max f1 not scaled:0.2619047619047619,batch\_size:1,scaling\_factor:0.05

Max accuracy not scaled:0.22,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.21386243386243384

Mean accuracy not scaled:0.198

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.5936187651567002,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.6,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3662287430513001

Mean accuracy scaled:0.48

Max f1 not scaled:0.5725331974046843,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.36201162950089694

Mean accuracy not scaled:0.47800000000000004

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.8714285714285714,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.87,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.6357536496129788

Mean accuracy scaled:0.7260000000000001

Max f1 not scaled:0.8714285714285714,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.87,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.6159869288161217

Mean accuracy not scaled:0.708

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3937282229965157

Mean accuracy scaled:0.65

Max f1 not scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3937282229965157

Mean accuracy not scaled:0.65

Standard

1 epoch:

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.1676129911424029,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.54,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.14632835362416405

Mean accuracy scaled:0.524

Max f1 not scaled:0.14100719424460434,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.14100719424460434

Mean accuracy not scaled:0.54

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.48571428571428577,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.5,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.27595663595663594

Mean accuracy scaled:0.29399999999999993

Max f1 not scaled:0.41258741258741255,batch\_size:1,scaling\_factor:0.01

Max accuracy not scaled:0.42,batch\_size:1,scaling\_factor:0.01

Mean f1 not scaled:0.21718281718281712

Mean accuracy not scaled:0.236

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.06666666666666667,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.11,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.06666666666666667

Mean accuracy scaled:0.11000000000000001

Max f1 not scaled:0.06666666666666667,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.11,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.06666666666666667

Mean accuracy not scaled:0.11000000000000001

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.4587148962148962,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.53,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.39567619182217634

Mean accuracy scaled:0.4960000000000001

Max f1 not scaled:0.44218869163118923,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.52,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3449870063898436

Mean accuracy not scaled:0.46799999999999997

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.3731343283582089,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.6,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3731343283582089

Mean accuracy scaled:0.6

Max f1 not scaled:0.3731343283582089,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.6,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3731343283582089

Mean accuracy not scaled:0.6

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.40885547201336675,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.39675367279988594

Mean accuracy scaled:0.65

Max f1 not scaled:0.4577691811734365,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4065364146318998

Mean accuracy not scaled:0.654

10 epochs:

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.23584694562541958,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.58,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.17392755182569264

Mean accuracy scaled:0.554

Max f1 not scaled:0.20454545454545453,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.57,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.1537148463047744

Mean accuracy not scaled:0.546

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.4497354497354497,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.46,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.29627409627409623

Mean accuracy scaled:0.30999999999999994

Max f1 not scaled:0.7362637362637362,batch\_size:1,scaling\_factor:0.01

Max accuracy not scaled:0.79,batch\_size:1,scaling\_factor:0.01

Mean f1 not scaled:0.36100936100936093

Mean accuracy not scaled:0.384

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.35555555555555557,batch\_size:1,scaling\_factor:0.05

Max accuracy scaled:0.78,batch\_size:1,scaling\_factor:0.1

Mean f1 scaled:0.23664021164021168

Mean accuracy scaled:0.378

Max f1 not scaled:0.5079365079365079,batch\_size:1,scaling\_factor:0.05

Max accuracy not scaled:0.78,batch\_size:1,scaling\_factor:0.05

Mean f1 not scaled:0.278968253968254

Mean accuracy not scaled:0.44399999999999995

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.6224303013235708,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.64,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4216598543176645

Mean accuracy scaled:0.516

Max f1 not scaled:0.6080430472953837,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.63,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4187824035120271

Mean accuracy not scaled:0.514

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.8709346991037131,batch\_size:1,scaling\_factor:0.05

Max accuracy scaled:0.87,batch\_size:1,scaling\_factor:0.05

Mean f1 scaled:0.6703281547457997

Mean accuracy scaled:0.758

Max f1 not scaled:0.8478260869565217,batch\_size:1,scaling\_factor:0.05

Max accuracy not scaled:0.85,batch\_size:1,scaling\_factor:0.05

Mean f1 not scaled:0.5689747440527675

Mean accuracy not scaled:0.696

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.44476232394366194,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4039350431859449

Mean accuracy scaled:0.654

Max f1 not scaled:0.4547192861316195,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.66,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4059264356235365

Mean accuracy not scaled:0.6519999999999999

50 epochs

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_disease.log

Max f1 scaled:0.22126865671641788,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.58,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.15855501758701585

Mean accuracy scaled:0.548

Max f1 not scaled:0.2177299729340223,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.54,batch\_size:1,scaling\_factor:0.01

Mean f1 not scaled:0.16577349953936413

Mean accuracy not scaled:0.532

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\hepatitis.log

Max f1 scaled:0.41258741258741255,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.42,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.24301437692742037

Mean accuracy scaled:0.262

Max f1 not scaled:0.4497354497354497,batch\_size:1,scaling\_factor:0.001

Max accuracy not scaled:0.46,batch\_size:1,scaling\_factor:0.001

Mean f1 not scaled:0.2504439843570278

Mean accuracy not scaled:0.26999999999999996

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\lung\_cancer.log

Max f1 scaled:0.2619047619047619,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.22,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.24052910052910054

Mean accuracy scaled:0.22000000000000003

Max f1 not scaled:0.2619047619047619,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.22,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.24793650793650795

Mean accuracy not scaled:0.22000000000000003

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\diabetic.log

Max f1 scaled:0.7026049511943969,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.71,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.46657337849395086

Mean accuracy scaled:0.554

Max f1 not scaled:0.6880661474924228,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.7,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.44730031242693513

Mean accuracy not scaled:0.538

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\bone\_marrow.log

Max f1 scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.4027777777777778

Mean accuracy scaled:0.67

Max f1 not scaled:0.4027777777777778,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.67,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.4027777777777778

Mean accuracy not scaled:0.67

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\glioma.log

Max f1 scaled:0.8748377793799568,batch\_size:1,scaling\_factor:0.001

Max accuracy scaled:0.88,batch\_size:1,scaling\_factor:0.001

Mean f1 scaled:0.6796498522905379

Mean accuracy scaled:0.764

Max f1 not scaled:0.8748377793799568,batch\_size:1,scaling\_factor:0.001

Max accuracy not scaled:0.88,batch\_size:1,scaling\_factor:0.001

Mean f1 not scaled:0.6760009072753234

Mean accuracy not scaled:0.76

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\heart\_failure.log

Max f1 scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3706293706293706

Mean accuracy scaled:0.59

Max f1 not scaled:0.3706293706293706,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.59,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3706293706293706

Mean accuracy not scaled:0.59

C:\Users\gishy\OneDrive\phd\codes\orm-and-graph-benchmarks\project\mimic3\optim\results\ilpd.log

Max f1 scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 scaled:0.3937282229965157

Mean accuracy scaled:0.65

Max f1 not scaled:0.3937282229965157,batch\_size:1,scaling\_factor:0.0001

Max accuracy not scaled:0.65,batch\_size:1,scaling\_factor:0.0001

Mean f1 not scaled:0.3937282229965157

Mean accuracy not scaled:0.65