Experiment id	Nodes per layer	Description	Method	Accuracy	F1-Score	MCC	ROC-AUC	PR-AUC	Precision	Recall
1	50 nodes per layer	Experiment 1	(proposed method) INI	**0.9536**	**0.7704**	**0.7436**	**0.9383**	**0.8369**	0.8716	0.6921
			DTC	0.6726	0.5658	0.2694	0.6496	0.5056	0.5890	0.5477
			kNC	0.6058	0.4941	0.1700	0.5861	0.4374	0.4837	0.5098
			LR	0.6124	0.0245	-0.0043	0.5007	0.3870	0.1000	0.0140
			RFC	0.6690	0.5540	0.2936	0.6435	0.4911	0.5805	0.5345
			SVC	0.6140	0.0000	0.0000	0.5000	0.3860	0.0000	0.0000
			JC	0.0124	0.0245	0.0000	0.4437	0.0124	0.0124	1.0000
			AAI	0.0130	0.0257	0.0000	0.4454	0.0130	0.0130	1.0000
			PA	0.0126	0.0248	0.0000	0.6632	0.0243	0.0126	1.0000
2	100 nodes per layer	Experiment 2	(proposed method) INI	**0.9693**	**0.6742**	**0.6669**	**0.9346**	**0.7329**	0.7348	0.6232
			DTC	0.6758	0.5822	0.3250	0.6581	0.5114	0.5968	0.5698
			kNC	0.6197	0.5250	0.2074	0.6041	0.4647	0.5201	0.5308
			LR	0.5922	0.0655	-0.0072	0.4986	0.3973	0.2302	0.0384
			RFC	0.6995	0.6088	0.3699	0.6813	0.5351	0.6260	0.5940
			SVC	0.5883	0.1225	0.0402	0.5139	0.4054	0.2283	0.1411
			JC	0.0056	0.0111	0.0000	0.4703	0.0056	0.0056	1.0000
			AAI	0.0057	0.0114	0.0000	0.4705	0.0057	0.0057	1.0000
			PA	0.0055	0.0110	0.0000	0.6513	0.0110	0.0055	1.0000
3	150 nodes per layer	Experiment 3	(proposed method) INI	**0.9775**	**0.6785**	**0.6710**	**0.9488**	**0.7302**	0.7342	0.6308
			DTC	0.6477	0.5563	0.2756	0.6312	0.5166	0.5973	0.5224
			kNC	0.6523	0.5636	0.2602	0.6332	0.5106	0.5862	0.5439
			LR	0.5411	0.3120	0.0066	0.5032	0.4289	0.4314	0.2480
			RFC	0.6756	0.6039	0.3240	0.6635	0.5435	0.6256	0.5850
			SVC	0.5916	0.1940	0.0669	0.5305	0.4447	0.2316	0.1958
			JC	0.0042	0.0085	0.0000	0.4793	0.0042	0.0042	1.0000
			AAI	0.0042	0.0084	0.0000	0.4790	0.0042	0.0042	1.0000
			PA	0.0042	0.0084	0.0000	0.6265	0.0067	0.0042	1.0000
4	250 nodes per layer	Experiment 4	(proposed method) INI	**0.9855**	**0.6502**	**0.6506**	**0.9429**	**0.6911**	0.7308	0.5862
			DTC	0.6591	0.5738	0.2931	0.6428	0.5196	0.6013	0.5490
			kNC	0.6536	0.5729	0.2830	0.6399	0.5152	0.5915	0.5606
			LR	0.5830	0.4034	0.1002	0.5484	0.4484	0.4997	0.3481
			RFC	0.6695	0.5947	0.3143	0.6558	0.5300	0.6104	0.5804
			SVC	0.5867	0.2527	0.0882	0.5396	0.4433	0.3203	0.2611
			JC	0.0026	0.0051	0.0000	0.4857	0.0026	0.0026	1.0000
			AAI	0.0026	0.0051	0.0000	0.4859	0.0026	0.0026	1.0000
			PA	0.0026	0.0051	0.0000	0.6555	0.0057	0.0026	1.0000
5	500 nodes per layer	Experiment 5	(proposed method) INI	**0.9926**	**0.6553**	**0.6508**	**0.9568**	**0.6819**	0.7166	0.6036
			DTC	0.6081	0.5720	0.2092	0.6052	0.5336	0.5852	0.5594
			kNC	0.6009	0.5607	0.1960	0.5975	0.5281	0.5784	0.5441
			LR	0.5794	0.5495	0.1550	0.5775	0.5136	0.5511	0.5479
			RFC	0.6233	0.5954	0.2362	0.6214	0.5455	0.5988	0.5920
			SVC	0.5740	0.6197	0.1760	0.5840	0.5157	0.5323	0.7414
			JC	0.0013	0.0026	0.0000	0.4930	0.0013	0.0013	1.0000
			AAI	0.0013	0.0026	0.0000	0.4930	0.0013	0.0013	1.0000
			PA	0.0013	0.0026	0.0000	0.6551	0.0026	0.0013	1.0000

	Improvement				
Nodes per layer	Accuracy	F1-Score	MCC	ROC-AUC	PR-AUC
50	+41.78%	+36.16%	+176.06%	+44.45%	+65.54%
100	+38.57%	+10.75%	+80.30%	+37.18%	+36.96%
150	+44.68%	+12.36%	+42.99%	+42.99%	+34.36%
250	+47.19%	+9.34%	+107.02%	+43.78%	+30.40%
500	+59.25%	+10.06%	+175.52%	+53.97%	+25.00%
Average	*+46.30%*	*+15.73%*	*+116.38%*	*+44.48%*	*+38.45%*