

Node name number	Sample size		Without augmentation				Augmentation ratio (1:10)				Augmentation ratio (1:100)			
	Train set	Test set	AUC	F1 Score	Precision	Recall	AUC	F1 Score	Precision	Recall	AUC	F1 Score	Precision	Recall
I	809	480	0.957	0.955	0.980	0.931	0.983	0.982	0.983	0.981	0.984	0.983	0.985	0.981
I - 1	271	391	0.982	0.979	0.987	0.972	0.990	0.986	0.980	0.992	0.990	0.987	0.982	0.992
I - 1 - ①	261	386	0.981	0.978	0.984	0.971	0.982	0.979	0.987	0.972	0.982	0.980	0.989	0.972
I - 1 - ②	10	3	0.665	0.286	0.250	0.333	0.826	0.211	0.125	0.667	0.826	0.211	0.125	0.667
I - 2	92	83	0.706	0.556	0.814	0.422	0.853	0.803	0.922	0.711	0.859	0.811	0.923	0.723
I - 2 - ①	2	22	0.500	/	/	0.000	0.545	0.167	1.000	0.091	0.591	0.308	1.000	0.182
I - 2 - ②	3	20	0.500	/	/	0.000	0.650	0.462	1.000	0.300	0.700	0.571	1.000	0.400
I - 2 - ③	2	5	0.500	/	/	0.000	0.499	/	0.000	0.000	0.499	/	0.000	0.000
I - 3	40	69	0.800	0.706	0.840	0.609	0.919	0.899	0.967	0.841	0.926	0.908	0.967	0.855
I - 3 - ①	33	45	0.732	0.484	0.478	0.489	0.753	0.630	0.821	0.511	0.775	0.667	0.833	0.556
I - 3 - ②	4	21	0.499	/	0.000	0.000	0.827	0.596	0.538	0.667	0.828	0.609	0.560	0.667
II	830	791	0.966	0.987	0.985	0.990	0.980	0.994	0.990	0.997	0.980	0.994	0.990	0.997
II - 4	17	9	0.720	0.444	0.444	0.444	0.776	0.556	0.556	0.556	0.776	0.556	0.556	0.556
II - 5	190	136	0.931	0.891	0.908	0.875	0.956	0.933	0.947	0.919	0.960	0.940	0.955	0.926
II - 6	5	6	0.500	/	/	0.000	0.500	/	/	0.000	0.750	0.667	1.000	0.500
II - 7	732	701	0.916	0.958	0.941	0.976	0.926	0.967	0.944	0.990	0.927	0.967	0.944	0.991
II - 8	11	31	0.548	0.176	1.000	0.097	0.516	0.063	1.000	0.032	0.548	0.176	1.000	0.097
II - 9	22	18	0.588	0.300	1.000	0.176	0.559	0.211	1.000	0.118	0.639	0.435	1.000	0.278
II - 9 - ①	3	2	1.000	1.000	1.000	1.000	0.500	/	/	0.000	0.750	0.667	1.000	0.500
II - 9 - ②	1	2	0.500	/	/	0.000	0.500	/	/	0.000	0.750	0.667	1.000	0.500
II - 9 - ③	3	8	0.500	/	/	0.000	0.500	/	/	0.000	0.563	0.222	1.000	0.125
II - 10	34	23	0.730	0.431	0.393	0.478	0.754	0.490	0.462	0.522	0.775	0.520	0.481	0.565
II - 11	8	6	0.497	/	0.000	0.000	0.500	/	/	0.000	0.667	0.500	1.000	0.333
II - 12	1	4	0.500	/	/	0.000	0.499	/	0.000	0.000	0.625	0.400	1.000	0.250
II - 13	7	1	/	/	0.000	/	/	/	0.000	/	0.999	0.500	0.333	1.000
II - 14	1	6	0.500	/	/	0.000	0.500	/	/	0.000	0.750	0.667	1.000	0.500
II - 15	47	42	0.790	0.617	0.641	0.595	0.905	0.895	1.000	0.810	0.905	0.895	1.000	0.810
III	166	168	0.783	0.718	0.969	0.571	0.905	0.895	1.000	0.810	0.911	0.902	1.000	0.821
III - 1	160	153	0.793	0.731	0.958	0.591	0.921	0.909	0.985	0.844	0.920	0.905	0.977	0.843
III - 2	10	10	0.500	/	/	0.000	0.500	/	/	0.000	0.650	0.462	1.000	0.300
III - 3	5	7	0.499	/	0.000	0.000	0.500	/	/	0.000	0.786	0.727	1.000	0.571
IV	16	87	0.500	/	/	0.000	0.500	/	/	0.000	0.741	0.651	1.000	0.483
IV - 1	14	4	/	/	/	/	/	/	/	/	1.000	1.000	1.000	1.000
IV - 2	3	49	0.500	/	/	0.000	0.500	/	/	0.000	0.673	0.515	1.000	0.347
IV - 3	13	37	0.500	/	/	0.000	0.500	/	/	0.000	0.741	0.610	0.818	0.486
V	9	58	0.500	/	/	0.000	0.500	/	/	0.000	0.672	0.513	1.000	0.345
V - 1	4	8	0.500	/	/	0.000	0.500	/	/	0.000	0.938	0.933	1.000	0.875
V - 2	5	50	0.500	/	/	0.000	0.500	/	/	0.000	0.630	0.413	1.000	0.260
Average value			0.621	0.321	0.383	0.303	0.645	0.359	0.453	0.351	0.789	0.703	0.879	0.586