Table 12.1: The T2DM Sensitivity and Specificity in Normalized Removal Edges Feature

A. T2DM Sensitivity								
A. 12DW Sensitivity	SVMl	SVMnl	GNB	KNN	DT	RF	GCN	
Gene expression	Rank 3	Rank 2	Rank 6	Rank 4	Rank 7	Rank 5	Rank 1	
Netpro2vecMetgraphs	0.992	0.992	0.962	1	0.963	969	1	
Netpro2vecNDD	0.985	0.985	0.977	0.992	0.969	0.954	1	
Netpro2vecTM1	1	1	0.969	1	0.955	1	1	
Netpro2vecTM2	1	1	0.697	0.947	0.857	0.939	1	
Netpro2vecNDD+TM1	1	1	0.977	1	0.963	0.992	1	
Netpro2vecNDD+TM1+TM2	1	1	0.727	0.955	0.851	0.918	1	
Graph2Vec	0.969	0.977	0.969	0.977	0.969	0.969	1	
GL2Vec	0.977	1	0.969	0.962	0.962	0.962	1	
FeatherGraph	0.801	0.721	0.876	0.743	0.600	0.743	0.833	

B. T2DM Specitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCN	
Gene expression	Rank 3	Rank 2	Rank 6	Rank 4	Rank 7	Rank 5	Rank 1	
Netpro2vecMetgraphs	0.977	0.992	0.962	1	0.963	0.969	1	
Netpro2vecNDD	0.985	0.985	0.977	0.992	0.970	0.955	1	
Netpro2vecTM1	1	1	0.969	1	0.941	1	1	
Netpro2vecTM2	1	1	0.697	0.947	0.857	0.939	1	
Netpro2vecNDD+TM1	1	1	0.977	1	0.963	0.992	1	
Netpro2vecNDD+TM1+TM2	1	1	0.727	0.955	0.859	0.918	1	
Graph2Vec	0.969	0.977	0.969	0.977	0.962	0.969	1	
GL2Vec	0.977	1	0.969	0.962	0.962	0.962	1	
FeatherGraph	0.801	0.721	0.876	0.743	0.600	0.743	1	

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Table 12.2: The non-T2DM Sensitivity and Specificity in Normalized Removal Edges Feature

A. non-T2DM Sensitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCN	
Gene expression	Rank 3	Rank 2	Rank 7	Rank 6	Rank 5	Rank 4	Rank 1	
Netpro2vecMetgraphs	0.969	0.969	0.877	0.931	0.908	0.931	1	
Netpro2vecNDD	0.962	0.962	0.871	0.939	0.931	0.931	1	
Netpro2vecTM1	0.962	0.938	0.847	0.931	0.915	0.931	1	
Netpro2vecTM2	0.962	0,871	0.789	0.872	0.863	0.789	1	
Netpro2vecNDD+TM1	0.969	0.939	0.809	0.924	0.932	0.938	1	
Netpro2vecNDD+TM1+TM2	0.947	0.841	0.811	0.917	0.887	0.826	1	
Graph2Vec	0.923	0.977	0.900	0.931	0.908	0.931	1	
GL2Vec	0.908	0.946	0.908	0.908	0.915	0.915	1	
FeatherGraph	0.771	0.763	0.841	0.832	0.809	0.733	0.909	

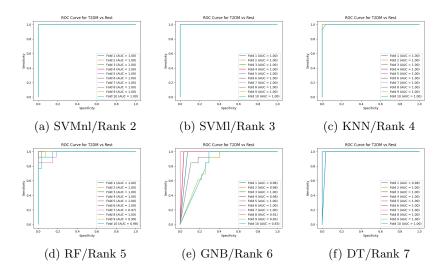
B. non-T2DM Specitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCN	
Gene expression	Rank 3	Rank 2	Rank 7	Rank 6	Rank 5	Rank 4	Rank 1	
Netpro2vecMetgraphs	0.969	0.969	0.877	0.931	0.908	0.931	1	
Netpro2vecNDD	0.962	0.962	0.871	0.938	0.931	0.931	1	
Netpro2vecTM1	0.962	0.938	0.847	0.931	0.916	0.931	1	
Netpro2vecTM2	0.962	0.864	0.789	0.872	0.863	0.789	1	
Netpro2vecNDD+TM1	0.969	0.939	0.808	0.924	0.932	0.938	1	
Netpro2vecNDD+TM1+TM2	0.947	0.841	0.811	0.917	0.887	0.826	1	
Graph2Vec	0.923	0.977	0.9	0.931	0.908	0.931	0.966	
GL2Vec	0.908	0.946	0.908	0.908	0.915	0.915	1	
FeatherGraph	0.771	0.763	0.841	0.832	0.809	0.733	1	

Table 12.3: The Healthy Sensitivity and Specificity in Normalized Removal Edges Feature

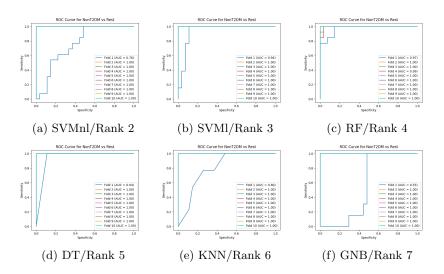
A. Healthy Sensitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCN	
Gene expression	Rank 2	Rank 6	Rank 5	Rank 3	Rank 4	Rank 7	Rank 1	
Netpro2vecMetgraphs	0.970	0.789	0.774	0.977	0.939	0.853	1	
Netpro2vecNDD	0.971	0.825	0.797	0.969	0.931	0.926	1	
Netpro2vecTM1	0.970	0.876	0.832	0.969	0.970	0.889	1	
Netpro2vecTM2	0.977	0.932	0.864	0.864	0.765	0.872	1	
Netpro2vecNDD+TM1	0.977	0.777	0.751	0.955	0.948	0.834	1	
Netpro2vecNDD+TM1+TM2	0.962	0.919	0.871	0.774	0.760	0.841	1	
Graph2Vec	0.903	0.804	0.949	0.947	0.932	0.932	0.909	
GL2Vec	0.925	0.763	0.954	0.954	0.977	0.909	1	
FeatherGraph	0.666	0.674	0.441	0.583	0.568	0.774	0.727	

B. Healthy Specitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCN	
Gene expression	Rank 2	Rank 6	Rank 5	Rank 3	Rank 4	Rank 7	Rank 1	
Netpro2vecMetgraphs	0.970	0.789	0.774	0.977	0.939	0.853	1	
Netpro2vecNDD	0.971	0.825	0.797	0.969	0.931	0.926	1	
Netpro2vecTM1	0.970	0.876	0.832	0.969	0.970	0.889	1	
Netpro2vecTM2	0.977	0.932	0.864	0.864	0.783	0.872	1	
Netpro2vecNDD+TM1	0.977	0.777	0.751	0.969	0.948	0.834	1	
Netpro2vecNDD+TM1+TM2	0.963	0.919	0.871	0.774	0.760	0.841	1	
Graph2Vec	0.910	0.804	0.949	0.947	0.932	0.932	0.966	
GL2Vec	0.925	0.763	0.954	0.954	0.977	0.909	1	
FeatherGraph	0.666	0.674	0.441	0.583	0.568	0.766	1	

## 1 ROC chart for The T2DM Sensitivity and Specificity in Normalized Removal Edges Feature



## 2 ROC chart for The non-T2DM Sensitivity and Specificity in Normalized Removal Edges Feature



## 3 ROC chart for The Healthy Sensitivity and Specificity in Normalized Removal Edges Feature

