Table 6.1: Table T2DM Sensitivity and Specificity within Original Features

A. T2DM Sensitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs	
Gene expression	Rank 2	Rank 5	Rank 7	Rank 3	Rank 4	Rank 6	Rank 1	
Netpro2vecMetgraphs	0.992	0.977	0.954	1	0.962	0.954	1	
Netpro2vecNDD	0.992	0.954	0.954	0.992	0.962	0.962	1	
Netpro2vecTM1	0.977	0.946	0.962	1	0.954	0.931	1	
Netpro2vecTM2	0.992	0.849	0.660	0.917	0.896	0.917	1	
Netpro2vecNDD+TM1	1	0.962	0.931	0.969	0.934	0.938	1	
Netpro2vecNDD+TM1+TM2	1	0.902	0.646	0.948	0.852	0.838	1	
Graph2Vec	0.962	0.954	0.954	0.954	0.953	0.946	1	
GL2Vec	0.954	0.954	0.962	0.954	0.969	0.946	1	
FeatherGraph	0.735	0.677	0.397	0.598	0.582	0.517	1	
SF	0.992	0.781	0.722	0.744	0.699	0.715	0.888	

B. T2DM Specitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs	
Gene expression	Rank 2	Rank 5	Rank 7	Rank 3	Rank 4	Rank 6	Rank 1	
Netpro2vecMetgraphs	0.992	0.977	0.954	1	0.962	0.954	1	
Netpro2vecNDD	0.992	0.954	0.954	0.992	0.962	0.962	1	
Netpro2vecTM1	0.977	0.946	0.962	1	0.954	0.931	1	
Netpro2vecTM2	0.992	0.849	0.664	0.917	0.950	0.917	1	
Netpro2vecNDD+TM1	1	0.962	0.954	0.969	0.934	0.938	1	
Netpro2vecNDD+TM1+TM2	1	0.902	0.646	0.948	0.852	0.838	1	
Graph2Vec	0.962	0.954	0.954	0.954	0.953	0.946	1	
GL2Vec	0.954	0.954	0.962	0.954	0.969	0.946	0.954	
FeatherGraph	0.735	0.677	0.397	0.598	0.582	0.517	1	
SF	0.992	0.781	0.722	0.744	0.699	0.715	0.955	

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Table 6.2: Table non-T2DM Sensitivity and Specitivity within Original Features

A. non-T2DM Sensitivity								
	SVMl	SVMnl	GNB	KNN	DT	\mathbf{RF}	GCNs	
Gene expression	Rank 2	Rank 3	Rank 7	Rank 6	Rank 4	Rank 5	Rank 1	
Netpro2vecMetgraphs	0.954	0.969	0.869	0.938	0.940	0.939	1	
Netpro2vecNDD	0.946	0.962	0.862	0.938	0.909	0.894	1	
Netpro2vecTM1	0.977	0.938	0.802	0.908	0.893	0.771	1	
Netpro2vecTM2	0.926	0.691	0.898	0.494	0.828	0.781	1	
Netpro2vecNDD+TM1	0.977	0.946	0.779	0.915	0.885	0.788	1	
Netpro2vecNDD+TM1+TM2	0.911	0.699	0.502	0.848	0.789	0.796	1	
Graph2Vec	0.892	0.869	0.838	0.9	0.854	0.885	1	
GL2Vec	0.908	0.892	0.892	0.885	0.877	0.908	0.909	
FeatherGraph	0.855	0.532	0.841	0.770	0.809	0.733	1	
SF	0.695	0.568	0.558	0.741	0.741	0.725	0.909	

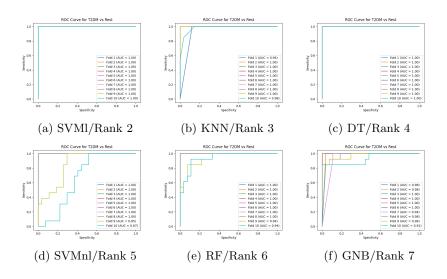
B. non-T2DM Specitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs	
Gene expression	Rank 2	Rank 3	Rank 7	Rank 6	Rank 4	Rank 5	Rank 1	
Netpro2vecMetgraphs	0.954	0.969	0.869	0.938	0.940	0.939	1	
Netpro2vecNDD	0.946	0.961	0.862	0.938	0.909	0.894	1	
Netpro2vecTM1	0.977	0.938	0.802	0.908	0.893	0.771	1	
Netpro2vecTM2	0.926	0.691	0.898	0.825	0.828	0.782	1	
Netpro2vecNDD+TM1	0.977	0.946	0.779	0.915	0.885	0.788	1	
Netpro2vecNDD+TM1+TM2	0.911	0.699	0.502	0.848	0.789	0.796	1	
Graph2Vec	0.892	0.869	0.838	0.9	0.854	0.885	1	
GL2Vec	0.908	0.892	0.892	0.885	0.877	0.908	1	
FeatherGraph	0.855	0.532	0.841	0.770	0.809	0.733	1	
SF	0.695	0.568	0.558	0.741	0.741	0.725	1	

Table 6.3: Table Healthy Sensitivity and Specitivity within Original Features

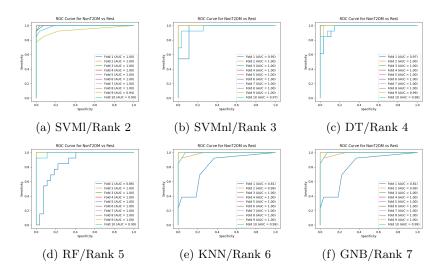
A. Healthy Sensitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs	
Gene expression	Rank 2	Rank 7	Rank 5	Rank 3	Rank 4	Rank 6	Rank 1	
Netpro2vecMetgraphs	0.910	0.685	0.738	0.956	0.947	0.919	1	
Netpro2vecNDD	0.873	0.669	0.707	0.964	0.903	0.869	1	
Netpro2vecTM1	0.977	0.784	0.745	0.925	0.836	0.831	1	
Netpro2vecTM2	0.895	0.765	0.842	0.900	0.714	0.690	0.909	
Netpro2vecNDD+TM1	0.931	0.685	0.723	0.791	0.818	0.729	1	
Netpro2vecNDD+TM1+TM2	0.940	0.641	0.827	0.699	0.751	0.544	0.818	
Graph2Vec	0.887	0.707	0.926	0.932	0.882	0.887	1	
GL2Vec	0.851	0.734	0.946	0.932	0.882	0.858	1	
FeatherGraph	0.527	0.758	0.340	0.599	0.505	0.751	0.909	
SF	0	0.5	0.599	0.476	0.469	0.645	0.909	

B. Healthy Specitivity								
	SVMl	SVMnl	GNB	KNN	DT	RF	GCNs	
Gene expression	Rank 2	Rank 7	Rank 5	Rank 3	Rank 4	Rank 6	Rank 1	
Netpro2vecMetgraphs	0.910	0.685	0.738	0.956	0.947	0.919	1	
Netpro2vecNDD	0.873	0.669	0.707	0.964	0.903	0.869	1	
Netpro2vecTM1	0.977	0.784	0.745	0.925	0.836	0.831	1	
Netpro2vecTM2	0.894	0.765	0.842	0.791	0.714	0.690	1	
Netpro2vecNDD+TM1	0.931	0.685	0.723	0.859	0.818	0.729	1	
Netpro2vecNDD+TM1+TM2	0.940	0.641	0.827	0.699	0.751	0.544	1	
Graph2Vec	0.887	0.707	0.926	0.932	0.882	0.887	1	
GL2Vec	0.851	0.734	0.946	0.932	0.882	0.858	1	
FeatherGraph	0.527	0.758	0.340	0.599	0.505	0.751	1	
SF	0	0.5	0.599	0.476	0.469	0.645	0.931	

1 ROC Chart for T2DM in Original Feature Including Ranking Order



2 ROC Chart for non-T2DM in Original Feature Including Ranking Order



3 ROC Chart for Healthy in Original Feature Including Ranking Order

