Precision New Normalized Data Patients								
Classification Models:	SVMI	SVMnl	GNB	KNN	DT	RF	GCNs	
Feature Extraction:	Rank 1	Rank 5	Rank 4	Rank 3	Rank 7	Rank 6	Rank 2	
Netpro2vecMetgraphs	0.970	0.947	0.879	0.952	0.818	0.904	0.765	
Netpro2vecNDD	0.981	0.958	0.882	0.962	0.797	0.935	0.778	
Netpro2vecTM1	0.961	0.955	0.817	0.909	0.759	0,878	0.708	
Netpro2vecTM2	0.908	0.885	0.762	0.793	0.576	0.796	0.552	
Netpro2vecNDD+TM1	0.940	0.902	0.807	0.925	0.685	0.853	0.726	
Netpro2vecNDD+TM1 +TM2	0.851	0.783	0.729	0.753	0.546	0.731	0.585	
Graph2Vec	0.906	0.887	0.939	0.959	0.905	0.943	0.817	
GL2Vec	0.969	0.925	0.971	0.977	0.934	0.957	0.978	
FeatherGraph	0.628	0.649	0.594	0.614	0.533	0.623	0.581	

TABLE II: recall result on new patients data implemented in several models using their normalized features

Recall New Normalized Data Patients								
Classification Models:	SVMI	SVMnl	GNB	KNN	DT	RF	GCNs	
Feature Extraction:	Rank 1	Rank 5	Rank 4	Rank 2	Rank 7	Rank 6	Rank 3	
Netpro2vecMetgraphs	0.969	0.945	0.877	0.949	0.814	0.899	0.703	
Netpro2vecNDD	0,981	0.957	0.864	0.959	0.778	0.932	0.756	
Netpro2vecTM1	0.959	0.953	0.761	0.895	0.742	0.848	0.657	
Netpro2vecTM2	0.906	0.884	0.719	0.701	0.511	0.779	0.496	
Netpro2vecNDD+TM1	0.933	0.890	0.786	0.919	0.672	0.841	0.674	
Netpro2vecNDD+TM1 +TM2	0.814	0.778	0.696	0.615	0.495	0.719	0.580	
Graph2Vec	0.899	0.890	0.936	0.958	0.892	0.936	0.801	
GL2Vec	0.969	0.920	0.970	0.977	0.928	0.954	0.975	
FeatherGraph	0.567	0.597	0.522	0.619	0.519	0.598	0.549	

TABLE III: F1 score result on new patients data implemented in several models using their normalized features

F1 Score New Normalized Data Patients								
Classification Models:	SVMI	SVMnl	GNB	KNN	DT	RF	GCNs	
Feature Extraction:	Rank 1	Rank 5	Rank 4	Rank 2	Rank 7	Rank 6	Rank 3	
Netpro2vecMetgraphs	0.969	0.945	0.875	0.949	0.814	0.898	0.692	
Netpro2vecNDD	0.981	0.957	0.862	0.959	0.759	0.932	0.750	
Netpro2vecTM1	0.959	0.953	0.755	0.891	0.739	0.838	0.636	
Netpro2vecTM2	0.906	0.884	0.698	0.691	0.502	0.777	0.512	
Netpro2vecNDD+TM1	0.931	0.890	0.784	0.913	0.592	0.838	0.640	
Netpro2vecNDD+TM1 +TM2	0.812	0.772	0.697	0.598	0.483	0.712	0.564	
Graph2Vec	0.898	0.889	0.936	0.958	0.893	0.936	0.799	
GL2Vec	0.969	0.919	0.970	0.977	0.927	0.955	0.975	
FeatherGraph	0.553	0.581	0.502	0.604	0.519	0.595	0.478	

1