

Table 7a:Accuracy Ranking with Underlying Features

| Classification Models | Ranking Order | Underlying Graph within 400 Patient data | Scheme | Treshold | Dimension |
|----------------------------|---------------|--|---------|----------|-----------|
| GCN | 1 | Netpro2VecMetGraph | meanSum | 2.80 | 64 |
| | | Netpro2VecNDD | meanSum | 2.80 | 64 |
| | | Netpro2VecNDD | minMax | 1.80 | 196 |
| SVM Linear (SVMl) | 2 | Netpro2VecTM1 | minSum | 2.80 | 196 |
| KNN | 3 | Netpro2VecMetgraphs | minMax | 1.80 | 196 |
| | | Netpro2VecNDD | | | |
| Decission Tree (DT) | 4 | Netpro2VecMetgraphs | minSum | 1.80 | 196 |
| Gaussian Naive Bayes (GNB) | 5 | GL2Vec | meanSum | 1.80 | 196 |
| Random Forest (RF) | 6 | Netpro2VecMetgraphs | minSum | 1.80 | 196 |
| SVM Non Linear (SVMnl) | 7 | Netpro2VecTM1 | minSum | 2.80 | 128 |
| | | | | | 196 |

Table 7b: Precision Ranking with Underlying Features

| Classification Models | Ranking Order | Underlying Graph within 400 Patient data | Scheme | Treshold | Dimension |
|----------------------------|---------------|--|---------|----------|-----------|
| GCN | 1 | Netpro2VecNDD+TM1 | meanSum | 2.80 | 196 |
| SVM Linear (SVMl) | 2 | Netpro2VecTM1 | minSum | 2.80 | 196 |
| KNN | 3 | Netpro2VecMetgraphs | meanSum | 2.80 | 196 |
| Gaussian Naive Bayes (GNB) | 4 | GL2Vec | meanSum | 1.80 | 196 |
| Decision Tree (DT) | 5 | Netpro2VecMetGraphs | minSum | 1.80 | 196 |
| Random Forest (RF) | 6 | Netpro2VecMetgraphs | minSum | 1.80 | 196 |
| | | GL2Vec | minMax | 1.80 | 196 |
| SVM Non Linear (SVMnl) | 7 | Netpro2VecTM2 | meanSum | 2.80 | 128 |

Table 7c:Recall Ranking with Underlying Features

| Classification Models | Ranking Order | Underlying Graph within 400 Patient data | Scheme | Treshold | Dimension |
|----------------------------|---------------|--|---------|----------|-----------|
| GCN | 1 | Graph2Vec | meanSum | 2.80 | 128 |
| KNN | 2 | Netpro2VecMetGraphs | minMax | 1.80 | 196 |
| SVM Linear (SVMl) | 3 | Netpro2VecMetgraphs | minMax | 1.80 | 64 |
| Decission Tree (DT) | 4 | Netpro2VecMetgraphs | minSum | 1.80 | 196 |
| Gaussian Naive Bayes (GNB) | 5 | GL2Vec | meanSum | 1.80 | 196 |
| Random Forest (RF) | 6 | Netpro2VecMetgraphs | minSum | 1.80 | 196 |
| SVM Non Linear (SVMnl) | 7 | Netpro2VecTM1 | minSum | 2.80 | 196 |

Table 7d:F1 Score Ranking with Underlying Features

| Classification Models | Ranking Order | Underlying Graph within 400 Patient data | Scheme | Treshold | Dimension |
|----------------------------|---------------|--|---------|----------|-----------|
| GCN | 1 | Netpro2vecMetGraphs | meanSum | 2.80 | 64 |
| | | Netpro2VecNDD | meanSum | 2.80 | 64 |
| | | Netpro2VecNDD | minMax | 1.80 | 196 |
| | | Graph2Vec | meanSum | 2.80 | 128 |
| | | | | | |
| SVM Linear (SVMl) | 2 | Netpro2VecTM1 | minSum | 2.80 | 196 |
| KNN | 3 | Netpro2VecMetgraphs | minMax | 1.80 | 196 |
| | | Netpro2VecNDD | minMax | 1.80 | 196 |
| Decission Tree (DT) | 4 | Netpro2VecMetgraphs | minSum | 1.80 | 196 |
| Gaussian Naive Bayes (GNB) | 5 | GL2Vec | meanSum | 1.80 | 196 |
| Random Forest (RF) | 6 | Netpro2VecMetgraphs | minSum | 1.80 | 196 |
| | | GL2Vec | minMax | 1.80 | 196 |
| SVM Non Linear (SVMnl) | 7 | Netpro2VecTM1 | minSum | 2.80 | 128 |
| | | Netpro2VecNDD+TM1+TM2 | meanSum | 2.80 | 196 |