Table 2

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Algo Name | Task | Accuracy | Specificity | Sensitivity | AUC | AUC CI |
| DecisionTreeClassifier | LOS | 0.84 | 0.88 | 0.55 | 0.81 | 0.7876978709831949-0.8389850498964259 |
| RandomForestClassifier | LOS | 0.84 | 0.90 | 0.43 | 0.79 | 0.7766429755234755-0.8090514570550523 |
| DecisionTreeClassifier | DIED | 0.94 | 0.94 | 0.68 | 0.89 | 0.8365671357836144-0.9463630398262148 |
| NeuralNetBinaryClassifier | anastomotic\_leak | 0.01 | 0.00 | 1.00 | 0.88 | 0.8425944328020263-0.9222740158910612 |
| RandomForestClassifier | anastomotic\_leak | 0.98 | 0.99 | 0.03 | 0.83 | 0.7760623792933818-0.890945327864394 |
| NeuralNetBinaryClassifier | LOS | 0.13 | 0.00 | 1.00 | 0.84 | 0.8211942636312464-0.8500799841397157 |
| DecisionTreeClassifier | anastomotic\_leak | 0.93 | 0.94 | 0.39 | 0.84 | 0.7620435291061813-0.9136384845908263 |
| NeuralNetBinaryClassifier | DIED | 0.01 | 0.00 | 1.00 | 0.90 | 0.846252187840221-0.9571426780726114 |
| RandomForestClassifier | DIED | 0.98 | 0.99 | 0.16 | 0.90 | 0.8563649716654991-0.9437602318194811 |