|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | None | Random | SMOTE | Borderline SMOTE | ADASYN | Cluster-SMOTE | cGAN |
|  |  |  |  |  |  |  |  |
| *Algorithm: LR* |  |  |  |  |  |  |  |
| AUC | 4.37 | 3.79 | 3.54 | 4.42 | 4.89 | 4.15 | **2.85** |
| F | 5.31 | 3.99 | 3.69 | 3.34 | 4.20 | 4.92 | **2.56** |
| G | 6.73 | 2.94 | 3.18 | 3.82 | 3.14 | 5.69 | **2.49** |
|  |  |  |  |  |  |  |  |
| *Algorithm: SVM* |  |  |  |  |  |  |  |
| AUC | 4.34 | 4.20 | 3.77 | 4.10 | 5.11 | 3.76 | **2.72** |
| F | 6.17 | 4.63 | 3.21 | 3.01 | 4.54 | 3.94 | **2.49** |
| G | 6.32 | 4.63 | 3.23 | 3.10 | 4.44 | 4.10 | **2.18** |
|  |  |  |  |  |  |  |  |
| *Algorithm: KNN* |  |  |  |  |  |  |  |
| AUC | 5.01 | 5.37 | 3.42 | 3.70 | 4.27 | 3.72 | **2.51** |
| F | 5.87 | 3.90 | 3.62 | 3.32 | 4.07 | 4.70 | **2.51** |
| G | 6.59 | 4.63 | 2.59 | 3.77 | 2.93 | 5.25 | **2.23** |
|  |  |  |  |  |  |  |  |
| *Algorithm: DT* |  |  |  |  |  |  |  |
| AUC | 5.23 | 4.76 | 3.70 | 4.04 | 3.61 | 3.96 | **2.70** |
| F | 5.34 | 4.10 | 3.76 | 4.03 | 3.68 | 4.28 | **2.82** |
| G | 5.46 | 5.18 | 3.44 | 3.92 | 3.27 | 4.18 | **2.55** |
|  |  |  |  |  |  |  |  |
| *Algorithm: GBM* |  |  |  |  |  |  |  |
| AUC | 4.93 | 4.58 | 3.49 | 4.13 | 4.18 | 4.13 | **2.56** |
| F | 5.49 | 4.14 | 3.54 | 3.80 | 4.13 | 4.54 | **2.37** |
| G | 6.10 | 4.85 | 2.97 | 3.82 | 3.13 | 4.62 | **2.52** |