```
c743h357@ENGR1005-11:~/EECS658/ChetanHiremath Assignment5$ python
ImbalancedDatasets.py
IMBALANCED DATA SET:
NEURAL NETWORK - Imbalanced Data Set
Accuracy: 0.975
Confusion Matrix:
[[40 0 0]
[ 0 27 3]
[ 0 0 50]]
Class Balanced Accuracy: 0.9477987421383647
Balanced Accuracy: 0.9761904761904763
Scikit-learn Balanced Accuracy: 0.9666666666666667
OVERSAMPLING:
NEURAL NETWORK - Random Oversampling
Accuracy: 0.966666666666667
Confusion Matrix:
[[50 0 0]
[ 0 47 3]
[ 0 2 48]]
NEURAL NETWORK - SMOTE Oversampling
Accuracy: 0.98
Confusion Matrix:
[[50 0 0]
[ 0 47 3]
[ 0 0 50]]
NEURAL NETWORK - ADASYN Oversampling
Accuracy: 0.9361702127659575
Confusion Matrix:
[[40 0 0]
[ 0 46 5]
[ 0 4 46]]
UNDERSAMPLING:
NEURAL NETWORK - Random Undersampling
Accuracy: 0.9222222222223
Confusion Matrix:
[[30 0 0]
[ 0 27 3]
[ 0 4 26]]
NEURAL NETWORK - Cluster Undersampling
Accuracy: 0.977777777777777
Confusion Matrix:
[[30 0 0]
[ 0 28 2]
[ 0 0 30]]
NEURAL NETWORK - Tomek Links Undersampling
Accuracy: 0.9663865546218487
Confusion Matrix:
[[40 0 0]
[ 0 26 4]
[ 0 0 49]]
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```