|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Samples per each Category | Splits | Training Data | Testing Data | Training Accuracy | Validation Accuracy | Training Loss | Validation Loss |
| 50 | 90 vs 10 | 2025 | 225 | 99.16 | 97.33 | 0.2407 | 0.2530 |
| 80 vs 20 | 1800 | 450 | 98.83 | 92.89 | 0.3085 | 0.4077 |
| 70 vs 30 | 1575 | 675 | 97.96 | 90.52 | 0.4017 | 0.4892 |
| 60 vs 40 | 1350 | 900 | 94.12 | 84.56 | 0.6732 | 0.7755 |
| 50 vs 50 | 1125 | 1125 | 90.80 | 79.29 | 0.8191 | 0.9700 |
| 100 (Oversampled) | 90 vs 10 | 2025 | 225 | 99.88 | 97.56 | 0.0593 | 0.1235 |
| 80 vs 20 | 1800 | 450 | 99.56 | 96.56 | 0.0824 | 0.1509 |
| 70 vs 30 | 1575 | 675 | 99.71 | 94.81 | 0.1008 | 0.2109 |
| 60 vs 40 | 1350 | 900 | 99.18 | 94.00 | 0.1518 | 0.2666 |
| 50 vs 50 | 1125 | 1125 | 96.88 | 87.91 | 0.3510 | 0.5107 |
| 150 (Oversampled) | 90 vs 10 | 2025 | 225 | 99.84 | 97.63 | 0.0285 | 0.0926 |
| 80 vs 20 | 1800 | 450 | 99.72 | 97.19 | 0.0396 | 0.1030 |
| 70 vs 30 | 1575 | 675 | 99.83 | 96.79 | 0.0522 | 0.1275 |
| 60 vs 40 | 1350 | 900 | 99.60 | 95.56 | 0.0797 | 0.1761 |
| 50 vs 50 | 1125 | 1125 | 98.75 | 92.62 | 0.1477 | 0.2864 |