Phishing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Confidence Factor | Pruning | Minimum Instance | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| N/A | Yes | 2 | 98.3198 | 95.4753 | 96.2327 |
| 0.1 | No | 2 | 96.7688 | 94.817 | 96.1423 |
| 0.25 | No | 2 | 97.5055 | 95.231 | 96.3231 |
| 0.4 | No | 2 | 97.7511 | 95.605 | 96.2327 |
| 0.6 | No | 2 | 98.3327 | 95.45 | 96.2025 |
| 0.8 | No | 2 | 98.3327 | 95.45 | 96.2025 |

Letter

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| --- | --- | --- | --- | --- | --- |
| Confidence Factor | Pruning | Minimum Instance | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| N/A | Yes | 2 | 95.9826 | 85.267 | 86.6744 |
| 0.1 | No | 2 | 95.0247 | 85.2384 | 86.6079 |
| 0.25 | No | 2 | 95.5679 | 85.3528 | 86.8242 |
| 0.4 | No | 2 | 95.7324 | 85.37418 | 86.8574 |
| 0.6 | No | 2 | 95.9826 | 85.31698 | 86.8408 |
| 0.8 | No | 2 | 95.9826 | 85.31698 | 86.8408 |

Phishing

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| --- | --- | --- | --- |
| K | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| 1 | 99.134 | 96.88498451 | 96.8957 |
| 5 | 96.2393 | 94.77817223 | 95.2984 |
| 10 | 95.0885 | 94.28701559 | 94.4545 |
| 30 | 93.6409 | 93.33050867 | 93.5503 |
| 80 | 92.8008 | 92.71020321 | 92.2242 |

Letter

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| --- | --- | --- | --- |
| K | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| 1 | 100 | 94.76009 | 95.841 |
| 5 | 96.9047 | 93.7808 | 95.0923 |
| 10 | 95.618 | 92.93728 | 94.3271 |
| 30 | 92.0008 | 89.57036 | 90.4342 |
| 80 | 84.7237 | 81.87141 | 83.1476 |

Phishing Bootsing

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Learner | Iterations | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| Decision Tree –C 0.25 | 10 | 99.134 | 96.8463 | 96.9861 |
| Decision Tree –C 0.4 | 10 | 99.134 | 96.6524 | 97.0464 |
| Decision Tree –C 0.25 | 20 | 99.134 | 96.8334 | 96.9861 |
| Decision Tree –C 0.4 | 20 | 99.134 | 96.6524 | 97.1368 |

Letter Boosting

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Learner | Iterations | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| Decision Tree –C 0.25 | 10 | 100 | 94.1668 | 94.7762 |
| Decision Tree –C 0.4 | 10 | 100 | 94.2026 | 94.8262 |
| Decision Tree –C 0.25 | 20 | 100 | 95.5168 | 95.9907 |
| Decision Tree –C 0.4 | 20 | 100 | 95.5394 | 96.2236 |
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Phishing SVM

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| --- | --- | --- | --- |
| Kernel | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| Linear Kernel | 94.0158 | 93.7314 | 93.8216 |
| Polynomial garma = 0.03 degree = 3 | 94.3647 | 93.9253 | 94.5449 |
| RBK garma = 1 | 99.0953 | 96.72996 | 97.1368 |

Letter SVM

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| --- | --- | --- | --- |
| Kernel | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| Linear Kernel | 87.5974 | 85.3528 | 85.094 |
| Polynomial garma = 0.06 degree = 3 | 100 | 94.1597 | 94.7762 |
| RBK garma = 0.06 | 99.2637 | 96.7189 | 97.4048 |

Phishing ANN

|  |  |  |  |
| --- | --- | --- | --- |
| Layer | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| 16, LR = 0.3 M=0.2 | 98.966 | 96.2518 | 96.4738 |
| 16, LR = 0.1,M=0.1 | 99.0048 | 96.381 | 96.1724 |
| 16, LR = 0.5,M=0.5 | 98.5912 | 95.9804 | 96.3864 |

Letter ANN

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| --- | --- | --- | --- |
| Layer | Training Accuracy | CV-10 Accuracy | Testing Accuracy |
| 20, LR = 0.3 M=0.2 | 83.7873 | 81.7499 | 81.9644 |
| 20, LR = 0.1,M=0.1 | 84.0946 | 82.765 | 82.1161 |
| 16, LR = 0.5,M=0.5 | 81.85 | 80.3488 | 78.5227 |