Feature Descriptor: LTP

1. Feature Selection: CFS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.582 | 0.588 | 0.588 | 0.587 | 0.589 | 0.58 | 0 |
| J48 binary tree | 0.639 | 0.588 | 0.588 | 0.589 | 0.589 | 0.588 | 0 |
| AODE | 0.702 | 0.641 | 0.641 | 0.642 | 0.642 | 0.641 | 0 |
| Bayes network | 0.742 | 0.634 | 0.634 | 0.635 | 0.635 | 0.634 | 0 |
| Naïve bay | 0.732 | 0.618 | 0.618 | 0.62 | 0.62 | 0.618 | 0 |
| SVM | 0.525 | 0.542 | 0.542 | 0.518 | 0.62 | 0.426 | 0 |
| Logistic | 0.589 | 0.542 | 0.542 | 0.541 | 0.542 | 0.542 | 0.03 |
| SMO | 0.648 | 0.649 | 0.649 | 0.647 | 0.649 | 0.649 | 0.03 |
| Muti layer | 0.666 | 0.656 | 0.656 | 0.657 | 0.657 | 0.657 | 8.03 |

1. Feature Selection: Chi-Square

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0 |
| J48 binary tree | 0.618 | 0.588 | 0.589 | 0.598 | 0.589 | 0.588 | 0 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.04 |
| Logistic | 0.591 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.87 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0 |
| J48 binary tree | 0.618 | 0.588 | 0.589 | 0.598 | 0.589 | 0.588 | 0 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.04 |
| Logistic | 0.591 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.54 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0 |
| J48 binary tree | 0.618 | 0.588 | 0.589 | 0.598 | 0.589 | 0.588 | 0 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.04 |
| Logistic | 0.591 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.87 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0 |
| J48 binary tree | 0.618 | 0.588 | 0.589 | 0.598 | 0.589 | 0.588 | 0 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.04 |
| Logistic | 0.591 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.87 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0 |
| J48 binary tree | 0.618 | 0.588 | 0.589 | 0.598 | 0.589 | 0.588 | 0 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.04 |
| Logistic | 0.591 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.87 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0 |
| J48 binary tree | 0.618 | 0.588 | 0.589 | 0.598 | 0.589 | 0.588 | 0 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.04 |
| Logistic | 0.591 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.58 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Gain Ratio

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.609 | 0.588 | 0.588 | 0.589 | 0.589 | 0.588 | 0.01 |
| J48 binary tree | 0.63 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.53 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.609 | 0.588 | 0.588 | 0.589 | 0.589 | 0.588 | 0.01 |
| J48 binary tree | 0.63 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.53 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.609 | 0.588 | 0.588 | 0.589 | 0.589 | 0.588 | 0.01 |
| J48 binary tree | 0.63 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | -.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.53 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.609 | 0.588 | 0.588 | 0.589 | 0.589 | 0.588 | 0.01 |
| J48 binary tree | 0.63 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | -.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.53 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.609 | 0.588 | 0.588 | 0.589 | 0.589 | 0.588 | 0.01 |
| J48 binary tree | 0.63 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | -.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.53 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.609 | 0.588 | 0.588 | 0.589 | 0.589 | 0.588 | 0.01 |
| J48 binary tree | 0.63 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 5.92 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Information Gain

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.58 | 0.58 | 0.01 |
| J48 binary tree | 0.608 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.56 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.58 | 0.58 | 0.01 |
| J48 binary tree | 0.608 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 5.95 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.58 | 0.58 | 0.01 |
| J48 binary tree | 0.608 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.56 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.58 | 0.58 | 0.01 |
| J48 binary tree | 0.608 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.56 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.58 | 0.58 | 0.01 |
| J48 binary tree | 0.608 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.56 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.597 | 0.58 | 0.58 | 0.581 | 0.58 | 0.58 | 0.01 |
| J48 binary tree | 0.608 | 0.58 | 0.58 | 0.581 | 0.581 | 0.58 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.56 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Relief

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.58 | 0.573 | 0.573 | 0.574 | 0.574 | 0.573 | 0.01 |
| J48 binary tree | 0.553 | 0.519 | 0.519 | 0.521 | 0.521 | 0.519 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.03 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.58 | 0.573 | 0.573 | 0.574 | 0.574 | 0.573 | 0.01 |
| J48 binary tree | 0.553 | 0.519 | 0.519 | 0.521 | 0.521 | 0.519 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.03 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.58 | 0.573 | 0.573 | 0.574 | 0.574 | 0.573 | 0.01 |
| J48 binary tree | 0.553 | 0.519 | 0.519 | 0.521 | 0.521 | 0.519 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.03 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.58 | 0.573 | 0.573 | 0.574 | 0.574 | 0.573 | 0.01 |
| J48 binary tree | 0.553 | 0.519 | 0.519 | 0.521 | 0.521 | 0.519 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.03 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.58 | 0.573 | 0.573 | 0.574 | 0.574 | 0.573 | 0.01 |
| J48 binary tree | 0.553 | 0.519 | 0.519 | 0.521 | 0.521 | 0.519 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.03 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.58 | 0.573 | 0.573 | 0.574 | 0.574 | 0.573 | 0.01 |
| J48 binary tree | 0.553 | 0.519 | 0.519 | 0.521 | 0.521 | 0.519 | 0.02 |
| AODE | 0.683 | 0.611 | 0.611 | 0.616 | 0.616 | 0.609 | 0.03 |
| Bayes network | 0.678 | 0.672 | 0.672 | 0.676 | 0.677 | 0.671 | 0 |
| Naïve bay | 0.681 | 0.641 | 0.641 | 0.649 | 0.652 | 0.638 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0.05 |
| Logistic | 0.59 | 0.527 | 0.527 | 0.527 | 0.527 | 0.527 | 6.03 |
| SMO | 0.586 | 0.588 | 0.588 | 0.584 | 0.587 | 0.587 | 0.04 |
| Muti layer |  |  |  |  |  |  |  |