Feature Descriptor: Gabor

1. Feature Selection: CFS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.567 | 0.55 | 0.55 | 0.548 | 0.549 | 0.549 | 0 |
| J48 binary tree | 0.661 | 0.649 | 0.649 | 0.651 | 0.651 | 0.649 | 0 |
| AODE | 0.839 | 0.725 | 0.725 | 0.722 | 0.725 | 0.725 | 0 |
| Bayes network | 0.868 | 0.786 | 0.786 | 0.786 | 0.786 | 0.786 | 0 |
| Naïve bay | 0.86 | 0.771 | 0.771 | 0.769 | 0.771 | 0.771 | 0 |
| SVM | 0.532 | 0.55 | 0.55 | 0.515 | 0.679 | 0.43 | 0 |
| Logistic | 0.756 | 0.687 | 0.687 | 0.687 | 0.687 | 0.687 | 0.22 |
| SMO | 0.703 | 0.702 | 0.702 | 0.703 | 0.703 | 0.702 | 0.05 |
| Muti layer | 0.761 | 0.725 | 0.725 | 0.727 | 0.727 | 0.725 | 15.95 |

1. Feature Selection: Chi-Square

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.546 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.58 | 0.58 | 0.583 | 0.583 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.72 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.546 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.58 | 0.58 | 0.583 | 0.583 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.72 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.546 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.58 | 0.58 | 0.583 | 0.583 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.72 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.546 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.58 | 0.58 | 0.583 | 0.583 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.72 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.546 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.58 | 0.58 | 0.583 | 0.583 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.72 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.546 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.58 | 0.58 | 0.583 | 0.583 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.92 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Gain Ratio

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.71 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.71 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.71 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.71 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.26 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.556 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.71 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Information Gain

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.553 | 0.573 | 0.573 | 0.575 | 0.575 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.25 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.553 | 0.573 | 0.573 | 0.575 | 0.575 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.25 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.553 | 0.573 | 0.573 | 0.575 | 0.575 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.25 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.553 | 0.573 | 0.573 | 0.575 | 0.575 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.25 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.553 | 0.573 | 0.573 | 0.575 | 0.575 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.25 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.54 | 0.557 | 0.557 | 0.558 | 0.558 | 0.557 | 0 |
| J48 binary tree | 0.553 | 0.573 | 0.573 | 0.575 | 0.575 | 0.572 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.25 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Relief

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.563 | 0.573 | 0.573 | 0.572 | 0.573 | 0.573 | 0 |
| J48 binary tree | 0.577 | 0.58 | 0.58 | 0.582 | 0.582 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.12 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.563 | 0.573 | 0.573 | 0.572 | 0.573 | 0.573 | 0 |
| J48 binary tree | 0.577 | 0.58 | 0.58 | 0.582 | 0.582 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.12 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.563 | 0.573 | 0.573 | 0.572 | 0.573 | 0.573 | 0 |
| J48 binary tree | 0.577 | 0.58 | 0.58 | 0.582 | 0.582 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.12 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.563 | 0.573 | 0.573 | 0.572 | 0.573 | 0.573 | 0 |
| J48 binary tree | 0.577 | 0.58 | 0.58 | 0.582 | 0.582 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.12 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.563 | 0.573 | 0.573 | 0.572 | 0.573 | 0.573 | 0 |
| J48 binary tree | 0.577 | 0.58 | 0.58 | 0.582 | 0.582 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.12 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.563 | 0.573 | 0.573 | 0.572 | 0.573 | 0.573 | 0 |
| J48 binary tree | 0.577 | 0.58 | 0.58 | 0.582 | 0.582 | 0.58 | 0 |
| AODE | 0.625 | 0.603 | 0.603 | 0.598 | 0.603 | 0.602 | 0.07 |
| Bayes network | 0.645 | 0.611 | 0.611 | 0.61 | 0.611 | 0.611 | 0 |
| Naïve bay | 0.641 | 0.603 | 0.603 | 0.604 | 0.604 | 0.603 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.569 | 0.55 | 0.55 | 0.55 | 0.551 | 0.55 | 2.12 |
| SMO | 0.579 | 0.58 | 0.58 | 0.577 | 0.58 | 0.58 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |