Feature Descriptor: CLBP

1. Feature Selection: CFS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.609 | 0.626 | 0.626 | 0.625 | 0.626 | o.626 | 0 |
| J48 binary tree | 0.616 | 0.649 | 0.649 | 0.651 | 0.651 | 0.649 | 0 |
| AODE | 0.782 | 0.71 | 0.71 | 0.718 | 0.726 | 0.707 | 0 |
| Bayes network | 0.882 | 0.748 | 0.748 | 0.751 | 0.752 | 0.748 | 0 |
| Naïve bay | 0.82 | 0.74 | 0.74 | 0.744 | 0.745 | 0.74 | 0 |
| SVM | 0.605 | 0.618 | 0.618 | 0.592 | 0.706 | 0.563 | 0 |
| Logistic | 0.664 | 0.626 | 0.626 | 0.625 | 0.626 | 0.626 | 0 |
| SMO | 0.703 | 0.702 | 0.702 | 0.704 | 0.704 | 0.702 | 0 |
| Muti layer | 0.727 | 0.702 | 0.702 | 0.702 | 0.703 | 0.702 | 5.17 |

1. Feature Selection: Chi-Square

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.581 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.571 | 0.565 | 0.565 | 0.564 | 0.565 | 0.565 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.558 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.578 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.7 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.581 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.571 | 0.565 | 0.565 | 0.564 | 0.565 | 0.565 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.558 | 0.558 | 0.544 | 0.04 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.578 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.69 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.581 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.571 | 0.565 | 0.565 | 0.564 | 0.565 | 0.565 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.558 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.578 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.7 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.581 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.571 | 0.565 | 0.565 | 0.564 | 0.565 | 0.565 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.558 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.578 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.7 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.581 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.571 | 0.565 | 0.565 | 0.564 | 0.565 | 0.565 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.558 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.578 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.7 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.581 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.571 | 0.565 | 0.565 | 0.564 | 0.565 | 0.565 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.558 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.578 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.481 | 0.269 | 0.355 | 0.08 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.68 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.05 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Gain Ratio

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.589 | 0.595 | 0.595 | 0.595 | 0.596 | 0.596 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.55 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.67 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.589 | 0.595 | 0.595 | 0.595 | 0.596 | 0.596 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.55 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.67 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.589 | 0.595 | 0.595 | 0.595 | 0.596 | 0.596 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.55 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.67 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.589 | 0.595 | 0.595 | 0.595 | 0.596 | 0.596 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.55 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.67 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.589 | 0.595 | 0.595 | 0.595 | 0.596 | 0.596 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.67 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.589 | 0.595 | 0.595 | 0.595 | 0.596 | 0.596 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.67 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Information Gain

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.635 | 0.618 | 0.618 | 0.617 | 0.618 | 0.618 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.635 | 0.618 | 0.618 | 0.617 | 0.618 | 0.618 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.635 | 0.618 | 0.618 | 0.617 | 0.618 | 0.618 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.635 | 0.618 | 0.618 | 0.617 | 0.618 | 0.618 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.635 | 0.618 | 0.618 | 0.617 | 0.618 | 0.618 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.635 | 0.618 | 0.618 | 0.617 | 0.618 | 0.618 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

1. Feature Selection: Relief

K=10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.524 | 0.534 | 0.534 | 0.535 | 0.535 | 0.535 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=20

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.524 | 0.534 | 0.534 | 0.535 | 0.535 | 0.535 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=30

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.524 | 0.534 | 0.534 | 0.535 | 0.535 | 0.535 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=40

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.524 | 0.534 | 0.534 | 0.535 | 0.535 | 0.535 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=50

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.524 | 0.534 | 0.534 | 0.535 | 0.535 | 0.535 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |

K=60

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Algorithm | AUC | AC | SN | SP | PR | FM | TIME |
| J48 | 0.556 | 0.588 | 0.588 | 0.591 | 0.587 | 0.584 | 0 |
| J48 binary tree | 0.524 | 0.534 | 0.534 | 0.535 | 0.535 | 0.535 | 0 |
| AODE | 0.581 | 0.55 | 0.55 | 0.548 | 0.558 | 0.544 | 0 |
| Bayes network | 0.617 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0 |
| Naïve bay | 0.611 | 0.58 | 0.58 | 0.587 | 0.587 | 0.587 | 0 |
| SVM | 0.5 | 0.519 | 0.519 | 0.491 | 0.269 | 0.355 | 0 |
| Logistic | 0.574 | 0.573 | 0.573 | 0.576 | 0.576 | 0.572 | 0.58 |
| SMO | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.534 | 0.07 |
| Muti layer |  |  |  |  |  |  |  |