|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Base | Class Min | Class Maj | Validation method | Method | Tree size | Accuracy(%) |
| Opticdigits  3823  64 | 10%(0) | 90%(rest) | Train\_test | OCE | 21 | 99.49 |
| SE | 21 | 99.27 |
| OAE | 21 | 98.38 |
| AVG | 21 | 99.10 |
| Tictactoe  958  9 | 35% | 65% | 10-folds | OCE | 89 | 85.49 |
| SE | 89 | 85.91 |
| OAE | 89 | 73.48 |
| AVG | 89 | 73.80 |
| Wine  178  13 | 33% | 67% | LOO | OCE | 5 | 97.75 |
| SE | 5 | 98.87 |
| OAE | 5 | 97.75 |
| AVG | 5 | 98.87 |
| Pima  768  8 | 35% | 65% |  | OCE | 13 | 77.72 |
| SE | 13 | 79.02 |
| OAE | 13 | 74.02 |
| AVG | 13 | 79.01 |
| German  1000  20 | 30% | 70% | 10-folds | OCE | 40 | 72.05 |
| SE | 40 | 73.1 |
| OAE | 40 | 65.3 |
| AVG | 40 | 65.7 |
| Ecoli  336  7 | 15% | 85% | 10-folds | OCE | 11 | 94.05 |
| SE | 11 | 95.83 |
| OAE | 11 | 92.85 |
| AVG | 11 | 93.72 |
| Breast cancer  569  30 | 38% | 62% | 10-folds | OCE | 11 | 96.83 |
| SE | 11 | 95.95 |
| OAE | 11 | 91.73 |
| AVG | 11 | 93.66 |
| Glass  214  9 | 33% | 67% | LOO | OCE | 21 | 92.99 |
| SE | 21 | 86.44 |
| OAE | 21 | 88 |
| AVG | 21 | 77.57 |
| Spambase  4601  57 | 40% | 60% | 10-folds | OCE | 20 | 80.86 |
| SE | 20 | 83.67 |
| OAE | 20 | 81.64 |
| AVG | 20 | 85.93 |
| Segment  2310  19 | 14% | 86% | 10-folds | OCE | 7 | 99.80 |
| SE | 7 | 99.80 |
| OAE | 7 | 99.42 |
| AVG | 7 | 99.61 |
| Yeast  1484  8 | 31% | 69% | 10-folds | OCE | 65 | 70.83 |
| SE | 65 | 77.22 |
| OAE | 65 | 71.76 |
| AVG | 65 | 70.89 |

**Test using 11 datasets from UCI Machine Learning Repository**

* **Tests conditions are similar to the ones made by our supervisor Philippe Lenca.**
* **All tests use binary classification.**

**Results:**

* **Our code performs very well in some cases.**
* **We have introduced a new method called AVG, which an average of all previous methods. We notice that this method gives good results in some datasets.**
* **We still need to test our solution in big datasets.**