# 4 model on BreastCancerWisconsin(Diagnostic) SMOTETomek

# RF reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 0.99 | 0.97 | 0.98 | 71.00 |
| M | 0.97 | 0.99 | 0.98 | 69.00 |
| accuracy | 0.98 | 0.98 | 0.98 | 0.98 |
| macro avg | 0.98 | 0.98 | 0.98 | 140.00 |
| weighted avg | 0.98 | 0.98 | 0.98 | 140.00 |

# RF accuracy

0.9785714285714285

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# ADABoost reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 1.00 | 0.99 | 0.99 | 71.00 |
| M | 0.99 | 1.00 | 0.99 | 69.00 |
| accuracy | 0.99 | 0.99 | 0.99 | 0.99 |
| macro avg | 0.99 | 0.99 | 0.99 | 140.00 |
| weighted avg | 0.99 | 0.99 | 0.99 | 140.00 |

# ADABoost accuracy

0.9928571428571429

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# XGBoost reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 1.00 | 0.99 | 0.99 | 71.00 |
| M | 0.99 | 1.00 | 0.99 | 69.00 |
| accuracy | 0.99 | 0.99 | 0.99 | 0.99 |
| macro avg | 0.99 | 0.99 | 0.99 | 140.00 |
| weighted avg | 0.99 | 0.99 | 0.99 | 140.00 |

# XGBoost accuracy

0.9928571428571429

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# LGBM reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 0.99 | 1.00 | 0.99 | 71.00 |
| M | 1.00 | 0.99 | 0.99 | 69.00 |
| accuracy | 0.99 | 0.99 | 0.99 | 0.99 |
| macro avg | 0.99 | 0.99 | 0.99 | 140.00 |
| weighted avg | 0.99 | 0.99 | 0.99 | 140.00 |

# LGBM accuracy

0.9928571428571429