# 4 model on BreastCancerWisconsin(Diagnostic) BorderlineSMOTE

# RF reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 0.99 | 0.96 | 0.97 | 69.00 |
| M | 0.96 | 0.99 | 0.97 | 74.00 |
| accuracy | 0.97 | 0.97 | 0.97 | 0.97 |
| macro avg | 0.97 | 0.97 | 0.97 | 143.00 |
| weighted avg | 0.97 | 0.97 | 0.97 | 143.00 |

# RF accuracy

0.972027972027972

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# ADABoost reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 1.00 | 0.93 | 0.96 | 69.00 |
| M | 0.94 | 1.00 | 0.97 | 74.00 |
| accuracy | 0.97 | 0.97 | 0.97 | 0.97 |
| macro avg | 0.97 | 0.96 | 0.96 | 143.00 |
| weighted avg | 0.97 | 0.97 | 0.96 | 143.00 |

# ADABoost accuracy

0.965034965034965

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# XGBoost reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 1.00 | 0.96 | 0.98 | 69.00 |
| M | 0.96 | 1.00 | 0.98 | 74.00 |
| accuracy | 0.98 | 0.98 | 0.98 | 0.98 |
| macro avg | 0.98 | 0.98 | 0.98 | 143.00 |
| weighted avg | 0.98 | 0.98 | 0.98 | 143.00 |

# XGBoost accuracy

0.9790209790209791

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# LGBM reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 1.00 | 0.93 | 0.96 | 69.00 |
| M | 0.94 | 1.00 | 0.97 | 74.00 |
| accuracy | 0.97 | 0.97 | 0.97 | 0.97 |
| macro avg | 0.97 | 0.96 | 0.96 | 143.00 |
| weighted avg | 0.97 | 0.97 | 0.96 | 143.00 |

# LGBM accuracy

0.965034965034965