# 4 model on BreastCancerWisconsin(Diagnostic) SMOTE

# 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

--------------------------------------------------------------------------------------------

# ADABoost reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 1.00 | 0.94 | 0.97 | 69.00 |
| M | 0.95 | 1.00 | 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 |

# ADABoost accuracy

0.972027972027972

--------------------------------------------------------------------------------------------

# XGBoost reports:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Class/Metric | precision | recall | f1-score | support |
| B | 1.00 | 0.97 | 0.99 | 69.00 |
| M | 0.97 | 1.00 | 0.99 | 74.00 |
| accuracy | 0.99 | 0.99 | 0.99 | 0.99 |
| macro avg | 0.99 | 0.99 | 0.99 | 143.00 |
| weighted avg | 0.99 | 0.99 | 0.99 | 143.00 |

# XGBoost accuracy

0.986013986013986

--------------------------------------------------------------------------------------------

# LGBM 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 |

# LGBM accuracy

0.972027972027972