Model Evaluation Report

This report summarizes the performance of various classification models after applying SMOTE and scaling, with hyperparameter tuning using GridSearchCV.

# Model Performance Summary

|  |  |  |
| --- | --- | --- |
| Model | Accuracy | ROC-AUC |
| Logistic Regression | 0.9985 | 0.9972 |
| Random Forest | 0.9985 | 0.9990 |
| SVM | 0.9985 | 0.9977 |
| Naive Bayes | 0.9985 | 0.9985 |
| XGBoost | 0.9985 | 0.9972 |
| Gradient Boosting | 0.9985 | 0.9972 |
| AdaBoost | 0.9985 | 0.9985 |

# Model Performance Chart

