|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Model** | **Parameters** | **ROC-AUC** | **Accuracy** | **Weighted-Average Precision** | **Weighted-Average Recall** | **Weighted-Average**  **F1-Score** |
| **Logistic Regression** | * max\_iter = 500 * solver = sag * C = 0.1 | 0.8232 | 0.8776 | 0.86 | 0.88 | 0.86 |
| **Random Forest Classifier** | * max\_depth = 10 * min\_samples\_split = 2 * min\_samples\_leaf = 3 * n\_estimators = 200 * boostrap = True | 0.8177 | 0.8571 | 0.86 | 0.86 | 0.81 |
| **XGBoost Classifier\*** | * subsample = 0.6 * n\_estimators = 750 * min\_child\_weight = 10 * max\_depth = 12 * learning\_rate = 0.02 * gamma = 5 * colsample\_bytree = 0.6 | 0.8403 | 0.8798 | 0.88 | 0.88 | 0.85 |

\*XGBoost Classifier was selected for final model.