

Binary Classification Model Results

[1] Report (K-Neighbors Classifier):
CV Scores:

[83.98 85.98 87.5 86.66 88.51]

Train score:

91.86 %

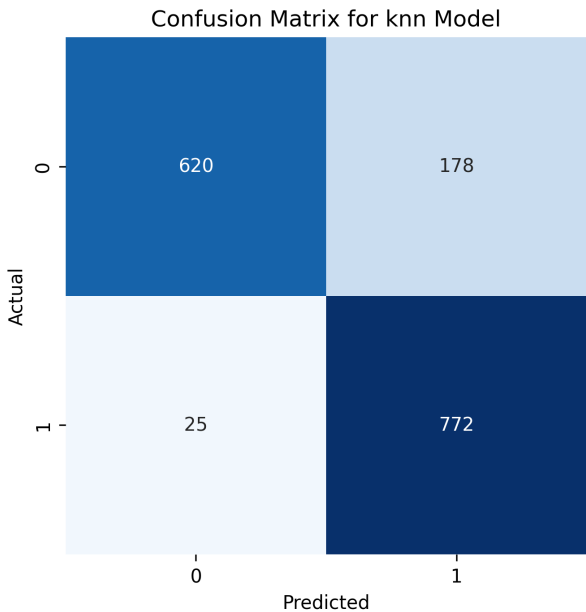
Test score:

87.27 %

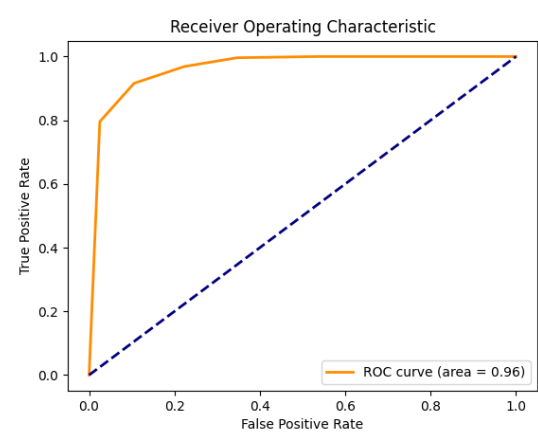
Classification result:

	precision	recall	f1-score	support
0	0.96	0.78	0.86	798
1	0.81	0.97	0.88	797
accuracy		0.87	1595	
macro avg	0.89	0.87	0.87	1595
weighted avg	0.89	0.87	0.87	1595

Confusion Matrix:



ROC Curve:



[2] Report (Logistic Regression):
CV Scores:

[75.38 71.62 75.34 75.51 76.01]

Train score:

75.31 %

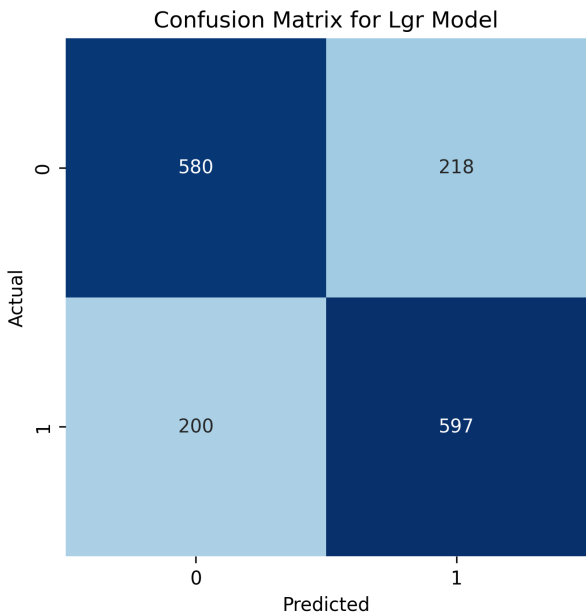
Test score:

73.79 %

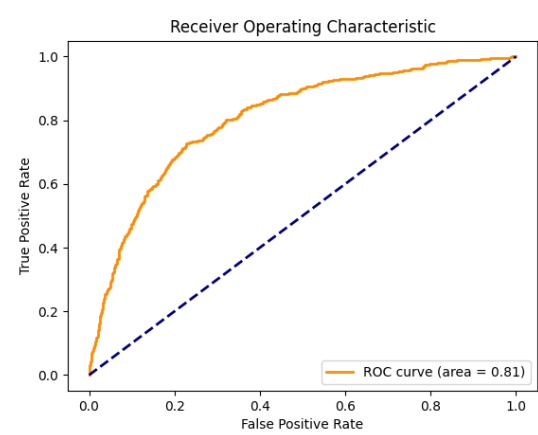
Classification result:

	precision	recall	f1-score	support
0	0.74	0.73	0.74	798
1	0.73	0.75	0.74	797
accuracy		0.74		1595
macro avg	0.74	0.74	0.74	1595
weighted avg	0.74	0.74	0.74	1595

Confusion Matrix:



ROC Curve:



[3] Report (XGB Classifier):
CV Scores:

[0 0 0 0 0]

Train score:

100.00 %

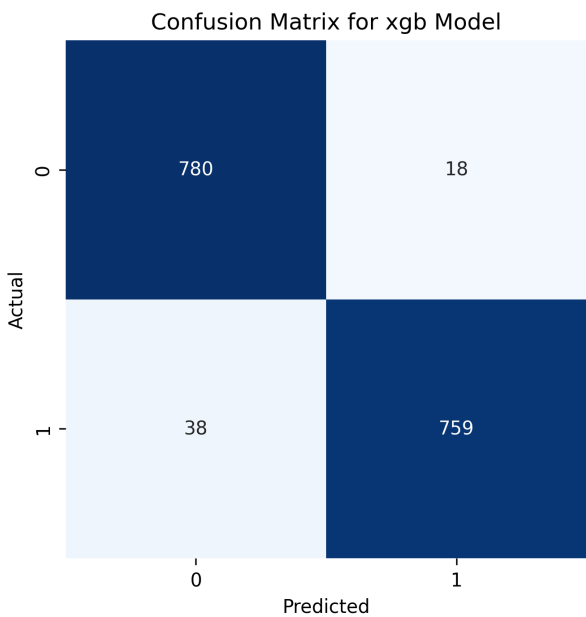
Test score:

96.49 %

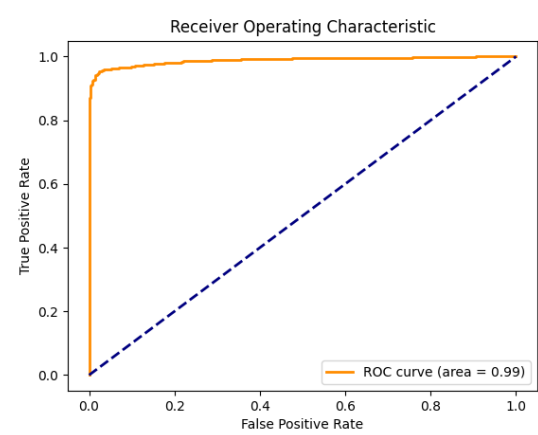
Classification result:

	precision	recall	f1-score	support
0	0.95	0.98	0.97	798
1	0.98	0.95	0.96	797
accuracy		0.96		1595
macro avg	0.97	0.96	0.96	1595
weighted avg	0.97	0.96	0.96	1595

Confusion Matrix:



ROC Curve:



[4] Report (Decision Tree Classifier):
CV Scores:

[87.86 90.03 88.34 89.19 90.88]

Train score:

100.00 %

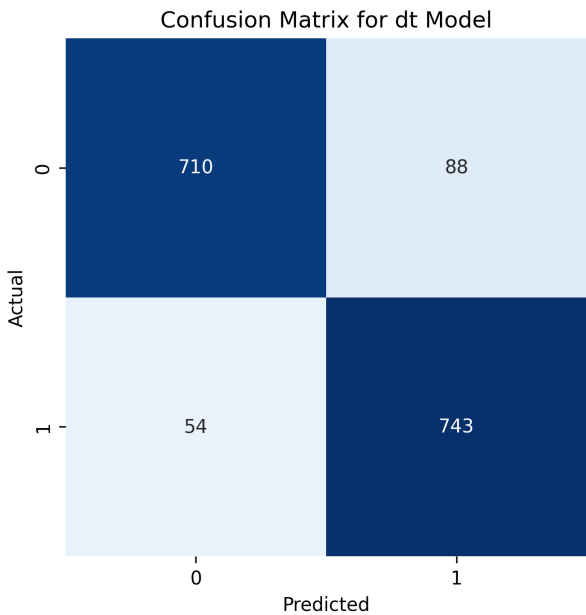
Test score:

91.10 %

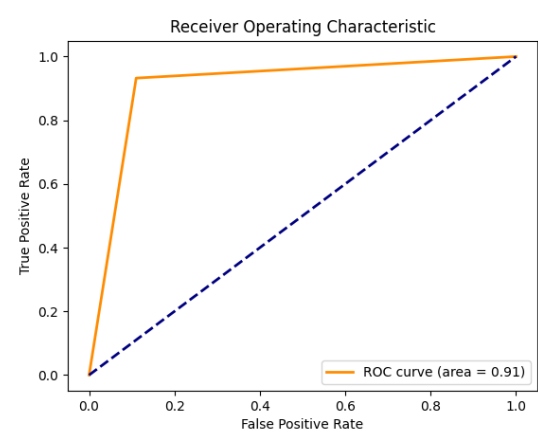
Classification result:

	precision	recall	f1-score	support
0	0.93	0.89	0.91	798
1	0.89	0.93	0.91	797
accuracy		0.91		1595
macro avg	0.91	0.91	0.91	1595
weighted avg	0.91	0.91	0.91	1595

Confusion Matrix:



ROC Curve:



[5] Report (Random Forest Classifier):
CV Scores:

[92.75 92.91 93.41 92.74 94.09]

Train score:

100.00 %

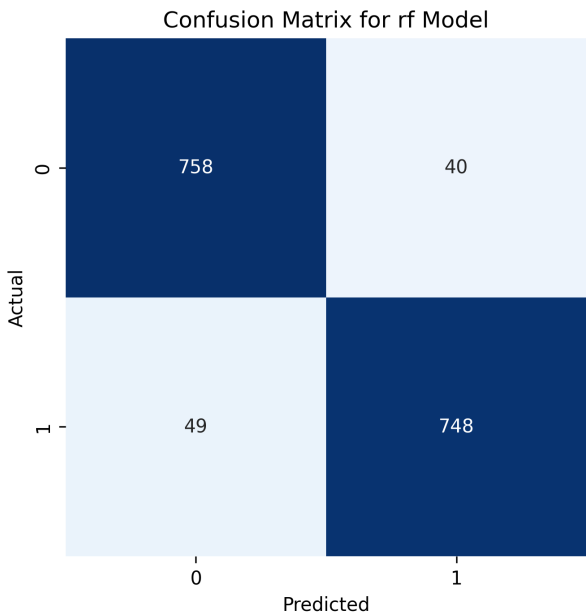
Test score:

94.42 %

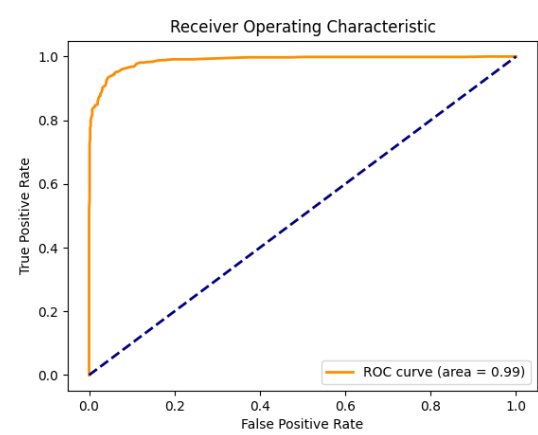
Classification result:

	precision	recall	f1-score	support
0	0.94	0.95	0.94	798
1	0.95	0.94	0.94	797
accuracy		0.94		1595
macro avg	0.94	0.94	0.94	1595
weighted avg	0.94	0.94	0.94	1595

Confusion Matrix:



ROC Curve:



[6] Report (Bagging Classifier):
CV Scores:

[91.4 91.39 93.75 92.06 91.55]

Train score:

99.46 %

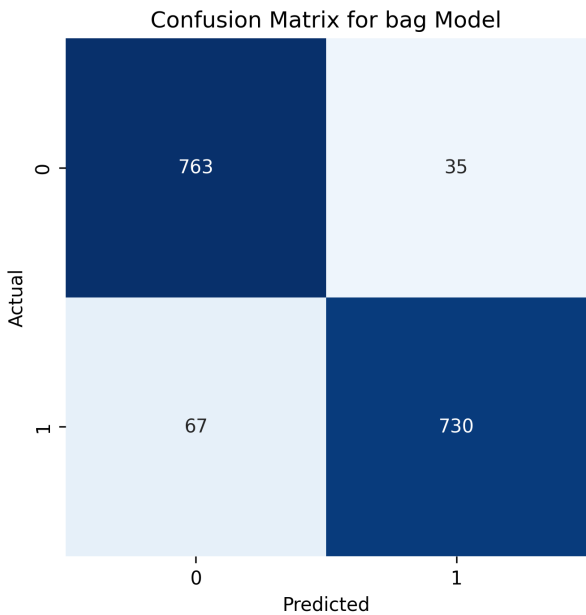
Test score:

93.61 %

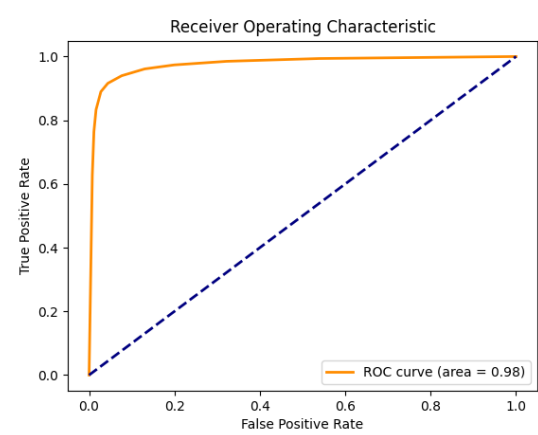
Classification result:

	precision	recall	f1-score	support
0	0.92	0.96	0.94	798
1	0.95	0.92	0.93	797
accuracy		0.94		1595
macro avg	0.94	0.94	0.94	1595
weighted avg	0.94	0.94	0.94	1595

Confusion Matrix:



ROC Curve:



[7] Report (Gradient Boosting Classifier):
CV Scores:

[93.76 92.74 94.26 94.43 92.57]

Train score:

96.35 %

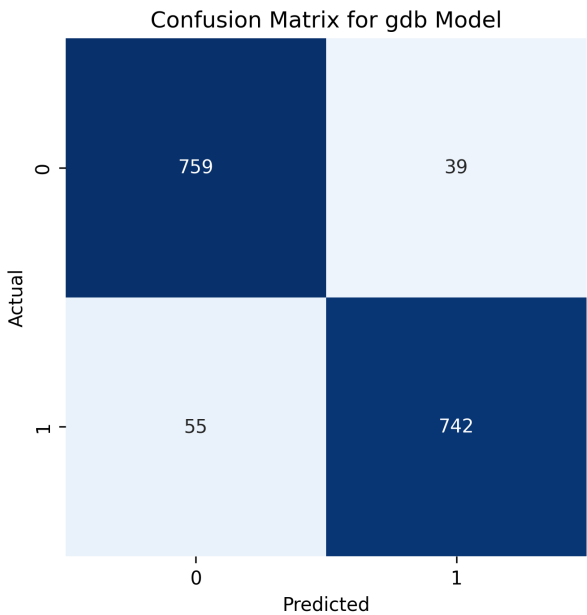
Test score:

94.11 %

Classification result:

	precision	recall	f1-score	support
0	0.93	0.95	0.94	798
1	0.95	0.93	0.94	797
accuracy		0.94		1595
macro avg	0.94	0.94	0.94	1595
weighted avg	0.94	0.94	0.94	1595

Confusion Matrix:



ROC Curve:

