Script Run:

Put the dataset the appropriate folder

In Pycharm or python 1605114.py

Dataset 1:

Logistic Regression:

Performance measure	Train	Test
Accuracy	78.09726659566915	79.84386089425124
True positive rate (sensitivity, recall, hit rate)	66.0427807486631	70.77747989276139
True negative rate (specificity)	82.45529241179314	83.10810810810811
Positive predictive value (precision)	57.64294049008168	60.136674259681094
False discovery rate	42.35705950991832	39.863325740318906
F1 score	61.557632398753896	65.02463054187191

Adaboost:

Number of boosting rounds	Training	Test
5	79.67696130635427	80.1277501774308
10	79.74795882144124	80.19872249822569
15	79.80120695775648	80.19872249822569
20	77.31629392971246	78.14052519517388

Dataset 2 :

Logistic Regression:

Performance measure	Train	Test
Accuracy	81.41948957341604	81.2603648424544
True positive rate (sensitivity, recall, hit rate)	49.84058155847468	49.50598023920957
True negative rate (specificity)	91.43608414239482	91.08162444712505
Positive predictive value (precision)	64.86307053941908	63.19283106538334
False discovery rate	35.136929460580916	36.80716893461666
F1 score	56.36809461993365	55.5182971278612

Adaboost:

Number of boosting rounds	Training	Test
5	80.06817972420994	80.33904551317487
10	80.06817972420994	80.33904551317487
15	80.07739320045454	80.32676125545115
20	80.07739320045454	80.32676125545115

Dataset 3:

Logistic Regression:

Performance measure	Train	Test
Accuracy	97.03963873557451	96.7935871743487
True positive rate (sensitivity, recall, hit rate)	85.38461538461539	84.31372549019608
True negative rate (specificity)	99.87523393636931	99.75247524752476
Positive predictive value (precision)	99.40298507462687	98.71794871794872
False discovery rate	0.5970149253731343	1.2820512820512822
F1 score	91.86206896551724	91.48936170212765

Adaboost:

Number of boosting rounds	Training	Test
5	97.0898143502258	96.7935871743487
10	97.0898143502258	96.7935871743487
15	96.43753135975916	96.7935871743487
20	96.43753135975916	96.7935871743487