

[illegible]

Accuracy : Dataset 2												
Method	Best Parameters	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Average of 10 samples
Decision Tree	minbucket = 10	70	65	67.5	77.5	62.5	65	67.5	70	72.5	77.5	69.5
Naïve Bayesian		72.5	72.5	70	82.5	70	62.5	77.5	67.5	65	65	70.5
SVM	kernel = linear	80	72.5	70	70	82.5	65	82.5	75	62.5	62.5	72.25
kNN	k =2000	70	80	75	65	72.5	67.5	70	75	67.5	67.5	71
Logistic Regression	family = binomial(link = "logit"), threshold = 0.80	80	67.5	72.5	70	65	65	70	77.5	65	75	70.75
Neural Network	size=9,maxit=1000,decay=0.1	82.5	75	62.5	67.5	65	72.5	75	67.5	70	80	71.75
Bagging	mfinal=15,maxdepth=5	80	67.5	72.5	75	85	72.5	62.5	72.5	77.5	67.5	73.25
Random Forest		67.5	70	80	62.5	65	62.5	67.5	77.5	75	82.5	71
Boosting	mfinal=10, maxdepth =1	72.5	70	80	62.5	70	70	67.5	60	60	67.5	68

Accuracy : Dataset 3												
Method	Best Parameters	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Average of 10 samples
Decision Tree	minbucket = 18	75	70	80	70	95	70	55	75	70	80	74
Naïve Bayesian		75	60	80	75	45	70	70	80	60	60	67.5
SVM	kernel = polynomial	80	95	85	70	100	90	65	80	90	90	84.5
kNN	k =15	75	65	85	80	100	90	60	85	85	85	81
Logistic Regression	Threshold=0.55	70	80	90	80	80	70	75	95	85	100	82.5
Neural Network	size=4,maxit=2000,decay=0.001	85	75	75	75	85	90	75	75	90	75	80
Bagging	mfinal=20,maxdepth=3	80	75	80	80	80	95	80	85	85	90	83
Random Forest		85	85	85	75	75	75	80	80	80	70	79
Boosting	mfinal=20, maxdepth =3	75	75	80	80	70	100	60	85	100	85	81

Accuracy : Dataset 4												
Method	Best Parameters	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Average of 10 samples
Decision Tree	minbucket = 4	91.23	94.74	92.98	92.98	98.25	94.74	96.49	92.98	98.25	87.72	94.04
Naïve Bayesian		89.47	89.47	96.49	92.98	94.74	89.47	94.74	92.98	92.98	92.98	92.63
SVM	kernel = radial	98.25	96.49	100.00	96.49	100.00	94.74	100.00	96.49	96.49	98.25	97.72
kNN	k =3	91.23	80.70	71.93	82.46	84.21	66.67	73.68	70.18	82.46	82.46	78.60
Logistic Regression	Threshold=0.65	96.49	98.25	91.23	98.25	96.49	96.49	96.49	92.98	94.74	91.23	95.26
Neural Network	size=5,maxit=500,decay=0.06	93.00	93.00	96.50	77.00	98.00	94.70	94.70	73.60	93.00	96.50	91.00
Bagging	mfinal=10,maxdepth=3	94.74	89.47	100.00	94.74	96.49	91.23	96.49	89.47	94.74	96.49	94.39
Random Forest		98.24	80.00	96.49	98.24	94.73	100.00	94.73	80.00	93.00	93.00	92.84
Boosting	mfinal=10, maxdepth =3	96.49	98.25	100.00	92.98	100.00	92.98	98.25	92.98	100.00	98.25	97.02

Accuracy : Dataset 5												
Method	Best Parameters	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Average of 10 samples
Decision Tree	minbucket = 2	97.14	91.43	88.57	94.29	82.86	88.57	91.43	94.29	82.86	97.14	90.86
Naïve Bayesian		85.71	94.29	85.71	88.57	91.43	97.14	94.29	85.71	91.43	94.29	90.86
SVM	kernel = radial	94.29	97.14	88.57	91.43	97.14	97.14	97.14	97.14	82.86	91.43	93.43
kNN	k =6	82.86	82.86	80.00	85.71	80.00	82.86	85.71	100.00	88.57	94.29	86.29
Logistic Regression	Threshold=0.15	85.71	94.29	91.43	80.00	88.57	85.71	91.43	91.43	80.00	82.86	87.14
Neural Network	size=5,maxit=500,decay=0.06	91.67	95.00	80.50	91.67	91.67	91.67	86.00	97.00	100.00	91.67	91.69
Bagging	mfinal=15,maxdepth=2	94.29	94.29	88.57	80.00	88.57	100.00	82.86	91.43	94.29	80.00	89.43
Random Forest		94.44	100.00	97.22	91.67	94.44	91.67	97.22	88.88	91.67	91.67	93.89
Boosting	mfinal=10, maxdepth =3	85.71	97.14	94.29	85.71	85.71	94.29	85.71	88.57	94.29	94.29	90.57