

Algorithm	Noise Filtering	Instance selection	Under/Oversampling	Instance selection
PCARD	No	No	No	No
				ROS
				RUS
			PCA	No
				ROS
				RUS
		FCNN	No	No
				ROS
				RUS
			PCA	No
				ROS
				RUS
	HME	No	No	No
				ROS
				RUS
			PCA	No
				ROS
				RUS
		FCNN	No	No
				ROS
				RUS
			PCA	No
				ROS
				RUS
	NCNEdit	No	No	No
				ROS
				RUS
			PCA	No
				ROS
				RUS
		FCNN	No	No
				ROS
				RUS
			PCA	No
				ROS
				RUS

Final training instances	Accuracy	TPR x TNR
1,000,000	0.901	0.018
1,349,105	0.838	0.515
199,843	0.738	0.597
X	X	X
X	X	X
X	X	X
327,863	0.897	0.186
754,526	0.826	0.539
10	0.900	0.000
X	X	X
X	X	X
X	X	X
903,094	0.902	0.037
800,941	0.879	0.358
158,588	0.718	0.594
X	X	X
X	X	X
X	X	X
30,577	0.901	0.124
438,282	0.843	0.507
106,099	0.730	0.595
X	X	X
X	X	X
X	X	X
878,496	0.900	0.001
982,131	0.831	0.542
199,965	0.726	0.593
X	X	X
X	X	X
X	X	X
80,104	0.902	0.069
342,103	0.838	0.513
10	0.900	0.000
X	X	X
X	X	X
X	X	X
		0.597

Noise filtering

FCNN

Average
Max

0.309
0.597

Average
Max

Average
Max

0.369
0.595

Average
Max

0.286
0.593

0.281	Average	0.496 ROS
0.595	Average	0.397 RUS