

TABLE 1: CLASSIFICATION REPORT OF HYPERTUNED RF MODEL

	precision	recall	f1-score	support
ST10	0.996794	1	0.998394	311
ST101	1	1	1	61
ST11	1	1	1	163
ST117	1	1	1	43
ST12	1	1	1	31
ST127	1	1	1	34
ST131	1	1	1	330
ST155	1	1	1	49
ST156	1	1	1	32
ST167	1	0.977777	0.988764	45
ST38	1	1	1	49
ST405	1	1	1	40
ST410	1	1	1	64
ST48	1	1	1	38
ST58	1	1	1	67
ST648	1	1	1	36
ST69	1	1	1	83
ST73	1	1	1	95
ST95	1	1	1	125
accuracy	0.999410	0.999410	0.999410	0.999410
macro avg	0.999831	0.998830	0.999324	1696
weighted avg	0.999412	0.999410	0.999407	1696

TABLE 2: CLASSIFICATION REPORT OF KNN ONLY WITH IMPORTANT FEATURES

	precision	recall	f1-score	support
ST10	1	1	1	311
ST101	1	1	1	61
ST11	1	1	1	163
ST117	1	1	1	43
ST12	1	1	1	31
ST127	1	1	1	34
ST131	1	1	1	330
ST155	1	1	1	49
ST156	1	1	1	32
ST167	1	1	1	45
ST38	1	1	1	49
ST405	1	1	1	40
ST410	1	1	1	64
ST48	1	1	1	38
ST58	1	1	1	67
ST648	1	1	1	36
ST69	1	1	1	83
ST73	1	1	1	95
ST95	1	1	1	125
accuracy	1	1	1	1
macro avg	1	1	1	1696
weighted avg	1	1	1	1696

TABLE 3: CLASSIFICATION REPORT OF KNN WITHOUT IMPORTANT FEATURES

	precision	recall	f1-score	support
ST10	0.990445	1	0.9952	311
ST101	1	1	1	61
ST11	1	1	1	163
ST117	1	1	1	43
ST12	1	1	1	31
ST127	1	1	1	34
ST131	1	1	1	330
ST155	0.98	1	0.989898	49
ST156	1	1	1	32
ST167	1	0.977777	0.988764	45
ST38	1	1	1	49
ST405	1	1	1	40
ST410	1	1	1	64
ST48	1	0.947368	0.972972	38
ST58	1	0.985074	0.992481	67
ST648	1	1	1	36
ST69	1	1	1	83
ST73	1	1	1	95
ST95	1	1	1	125
accuracy	0.997641	0.997641	0.997641	0.997641
macro avg	0.998444	0.995274	0.996806	1696
weighted avg	0.997670	0.997641	0.997627	1696

TABLE 4: CLASSIFICATION REPORT OF KNN WITH ALL FEATURES

	precision	recall	f1-score	support
ST10	0.993610	1	0.996794	311
ST101	1	1	1	61
ST11	1	1	1	163
ST117	1	1	1	43
ST12	1	1	1	31
ST127	1	1	1	34
ST131	1	1	1	330
ST155	1	1	1	49
ST156	1	1	1	32
ST167	1	0.9777777	0.9887640	45
ST38	1	1	1	49
ST405	1	1	1	40
ST410	1	1	1	64
ST48	1	0.973684	0.986666	38
ST58	1	1	1	67
ST648	1	1	1	36
ST69	1	1	1	83
ST73	1	1	1	95
ST95	1	1	1	125
accuracy	0.998820	0.998820	0.998820	0.998820
macro avg	0.999663	0.997445	0.998538	1696
weighted avg	0.998828	0.998820	0.998815	1696

