

Table 13: Ablation 4: Adding Uncertainty Robustness

Dataset	Approach	Mean set score		
		Method 1	Method 2	Method 3
NBA	Magix	74.22 ± 2.48	82.61 ± 1.47	89.40 ± 0.87
	SLS	64.66 ± 2.18	70.37 ± 2.15	34.85 ± 2.09
	Apriori	72.46 ± 2.58	78.88 ± 2.40	69.70 ± 3.06
	DT	57.16 ± 1.98	44.55 ± 3.29	28.06 ± 2.62
	Anchors	63.64 ± 2.89	49.51 ± 3.41	50.34 ± 3.80
Forest	Magix	77.45 ± 0.32	46.84 ± 0.63	41.69 ± 0.47
	SLS	18.16 ± 0.27	16.55 ± 0.31	10.14 ± 0.05
	Apriori	20.05 ± 0.36	19.44 ± 0.32	19.16 ± 0.39
	DT	30.86 ± 0.48	17.29 ± 0.33	6.40 ± 0.22
	Anchors	36.14 ± 0.40	16.27 ± 0.31	35.47 ± 0.71
Mushroom	Magix	99.69 ± 0.16	98.60 ± 0.27	99.69 ± 0.14
	SLS	79.11 ± 0.77	50.91 ± 0.88	40.46 ± 1.10
	Apriori	98.06 ± 0.26	83.93 ± 0.60	61.53 ± 1.42
	DT	92.96 ± 0.70	74.93 ± 0.89	64.24 ± 1.07
	Anchors	91.13 ± 0.66	81.47 ± 0.73	73.23 ± 0.84
Wifi	Magix	94.32 ± 1.42	62.92 ± 2.10	61.80 ± 2.05
	SLS	94.15 ± 1.20	70.27 ± 2.25	68.10 ± 0.85
	Apriori	95.70 ± 0.96	65.37 ± 2.57	61.55 ± 2.27
	DT	95.95 ± 0.70	72.97 ± 2.94	72.37 ± 1.88
	Anchors	81.86 ± 1.54	56.64 ± 1.55	57.04 ± 1.85
Statlog	Magix	97.43 ± 0.19	85.36 ± 0.26	19.27 ± 0.30
	SLS	77.45 ± 0.37	81.61 ± 0.39	7.07 ± 0.22
	Apriori	78.61 ± 0.41	84.39 ± 0.36	15.69 ± 0.21
	DT	93.70 ± 0.13	94.54 ± 0.21	50.85 ± 0.57
	Anchors	81.88 ± 5.48	77.73 ± 6.30	77.54 ± 3.09
Abalone	Magix	78.98 ± 1.30	35.95 ± 1.25	13.83 ± 1.33
	SLS	9.47 ± 0.94	11.29 ± 1.19	5.67 ± 0.85
	Apriori	30.13 ± 2.35	28.06 ± 1.12	16.37 ± 1.67
	DT	13.22 ± 1.22	11.30 ± 1.12	9.07 ± 0.66
	Anchors	54.28 ± 18.95	32.85 ± 15.71	31.43 ± 17.84
Character	Magix	40.84 ± 0.44	30.02 ± 0.66	28.87 ± 0.64
	SLS	18.64 ± 0.53	14.59 ± 0.66	14.62 ± 0.43
	Apriori	24.25 ± 0.59	24.46 ± 0.45	23.82 ± 0.63
	DT	26.49 ± 0.41	38.69 ± 0.59	61.72 ± 0.43
	Anchors	7.50 ± 0.35	3.27 ± 0.26	2.72 ± 0.23
Car	Magix	99.69 ± 0.16	98.60 ± 0.27	99.69 ± 0.14
	SLS	90.29 ± 1.07	91.82 ± 0.84	90.11 ± 1.85
	Apriori	94.07 ± 1.48	94.13 ± 1.39	93.41 ± 1.18
	DT	77.11 ± 1.64	77.08 ± 2.28	76.85 ± 2.01
	Anchors	81.88 ± 5.48	77.73 ± 6.48	77.54 ± 3.09

Dataset	Approach	Mean set score		
		Method 1	Method 2	Method 3
Chess	Magix	72.52 ± 0.36	69.52 ± 0.39	47.79 ± 0.64
	SLS	45.96 ± 0.68	50.34 ± 0.55	37.21 ± 0.52
	Apriori	69.67 ± 0.62	69.86 ± 0.62	57.38 ± 0.38
	DT	60.11 ± 0.73	57.83 ± 0.57	54.86 ± 0.81
	Anchors	21.94 ± 4.48	10.51 ± 2.74	12.65 ± 2.15
Tic-Tac-Toe	Magix	91.87 ± 2.73	89.42 ± 1.94	91.40 ± 2.17
	SLS	89.42 ± 1.99	86.40 ± 2.81	82.13 ± 2.52
	Apriori	90.41 ± 1.16	91.40 ± 2.35	91.30 ± 1.66
	DT	73.38 ± 3.69	76.47 ± 3.30	78.85 ± 2.48
	Anchors	69.70 ± 4.43	61.72 ± 2.45	48.51 ± 3.30