

English dataset results																		
System	Gender			Age			Hate Speech			Bots			Fake News			Depression		
	n	Acc.	F ₁	n	Acc.	F ₁	n	Acc.	F ₁	n	Acc.	F ₁	n	Acc.	F ₁	n	Acc.	F ₁
winner	all	82.3	-	all	83.8	-	all	74.0	-	all	96.0	-	all	75.0	-	all	41.3	-
ST-lr	all	76.0 _{0.4}	76.0 _{0.4}	all	72.1 _{0.8}	47.4 _{2.3}	all	64.0 _{2.4}	63.8 _{2.5}	all	90.2 _{0.2}	90.2 _{0.2}	all	68.0 _{0.9}	67.8 _{0.9}	all	28.0 _{4.2}	20.2 _{6.1}
roberta-xlm	all	53.2 _{6.4}	39.5 _{12.4}	all	73.1 _{1.9}	41.9 _{1.9}	all	52.6 _{5.2}	39.0 _{11.3}	all	86.6 _{0.4}	86.3 _{0.4}	all	57.4 _{9.1}	47.4 _{17.2}	all	33.8 _{3.4}	21.3 _{3.3}
user-char-lr	all	79.2 _{0.3}	79.2 _{0.3}	all	73.9 _{0.6}	45.0 _{1.0}	all	62.4 _{0.8}	62.1 _{0.6}	all	91.2 _{0.1}	91.2 _{0.1}	all	70.5 _{1.3}	70.4 _{1.3}	all	35.2 _{2.4}	24.0 _{1.5}
LDSE	all	74.7	74.7	all	85.2	76.5	all	70.0	70.0	all	90.6	90.5	all	74.5	74.5	all	45.0	38.2
CA	0	75.3 _{0.0}	75.2 _{0.0}	0	63.4 _{0.0}	35.1 _{0.0}	0	70.0 _{0.0}	69.9 _{0.0}	0	52.3 _{0.0}	38.4 _{0.0}	0	64.0 _{0.0}	63.9 _{0.0}	0	36.2 _{0.0}	25.5 _{0.0}
SN	0	38.0 _{0.0}	37.6 _{0.0}	0	38.7 _{0.0}	29.7 _{0.0}	0	45.0 _{0.0}	44.1 _{0.0}	0	62.5 _{0.0}	62.5 _{0.0}	0	60.0 _{0.0}	56.3 _{0.0}	0	17.5 _{0.0}	15.9 _{0.0}
CA	all	76.1 _{0.5}	76.0 _{0.5}	all	65.9 _{1.2}	36.6 _{0.9}	all	63.4 _{3.8}	63.3 _{3.9}	all	88.2 _{0.7}	88.0 _{0.7}	all	59.3 _{1.0}	56.2 _{1.7}	all	34.2 _{8.8}	19.4 _{5.1}
SN	all	76.0 _{0.5}	76.0 _{0.5}	all	78.3 _{1.4}	61.5 _{8.1}	all	60.4 _{2.6}	60.2 _{2.5}	all	86.0 _{0.5}	85.8 _{0.6}	all	65.7 _{1.7}	65.6 _{1.6}	all	32.1 _{4.0}	22.9 _{4.5}
CA	256	77.3 _{0.9}	77.3 _{0.9}	32	72.3 _{2.3}	44.6 _{4.5}	8	70.0 _{0.0}	69.9 _{0.0}	512	87.8 _{0.9}	87.7 _{1.0}	48	62.6 _{0.9}	61.7 _{1.6}	16	33.5 _{1.0}	24.7 _{1.2}
SN	512	76.3 _{0.5}	76.3 _{0.5}	32	72.4 _{4.3}	61.2 _{7.9}	64	62.2 _{2.9}	62.1 _{2.9}	512	87.4 _{0.9}	87.2 _{1.0}	48	65.5 _{3.6}	65.1 _{3.6}	8	29.8 _{2.7}	25.7 _{5.1}

Table 1: **Test set results** of CA and SN compared to several baseline and reference approaches. n shows the number of training users. Top results without confidence interval overlaps are highlighted with **bold**.

Spanish dataset results															
System	Gender			Age			Hate Speech			Bots			Fake News		
	n	Acc.	F ₁	n	Acc.	F ₁	n	Acc.	F ₁	n	Acc.	F ₁	n	Acc.	F ₁
winner	all	83.2	-	all	79.6	-	all	85.0	-	all	93.3	-	all	82.0	-
ST-lr	all	70.3 _{0.3}	70.3 _{0.3}	all	62.7 _{2.0}	48.7 _{3.4}	all	80.8 _{0.8}	80.6 _{0.8}	all	87.3 _{0.4}	87.3 _{0.4}	all	76.5 _{1.1}	76.5 _{1.1}
roberta-xlm	all	53.8 _{5.5}	42.2 _{11.4}	all	50.0 _{0.0}	16.7 _{0.0}	all	75.6 _{1.2}	75.2 _{1.2}	all	86.2 _{0.5}	86.1 _{0.5}	all	71.4 _{10.7}	67.9 _{17.3}
user-char-lr	all	77.8 _{0.3}	77.8 _{0.3}	all	69.5 _{1.1}	56.5 _{1.7}	all	80.0 _{1.7}	79.9 _{1.7}	all	92.5 _{0.2}	92.5 _{0.2}	all	75.6 _{1.3}	75.4 _{1.3}
LDSE	all	71.9	71.9	all	78.4	64.9	all	82.0	82.0	all	83.7	83.7	all	79.0	78.9
CA	0	68.3 _{0.0}	68.2 _{0.0}	0	21.6 _{0.0}	16.4 _{0.0}	0	79.0 _{0.0}	78.6 _{0.0}	0	50.1 _{0.0}	33.6 _{0.0}	0	51.0 _{0.0}	36.3 _{0.0}
SN	0	38.1 _{0.0}	33.9 _{0.0}	0	48.6 _{0.0}	32.6 _{0.0}	0	49.0 _{0.0}	34.5 _{0.0}	0	41.5 _{0.0}	38.4 _{0.0}	0	49.5 _{0.0}	44.3 _{0.0}
CA	all	71.7 _{0.3}	71.7 _{0.3}	all	66.4 _{5.8}	51.1 _{9.8}	all	76.6 _{1.3}	76.4 _{1.5}	all	87.1 _{1.4}	87.0 _{1.4}	all	78.3 _{1.2}	78.0 _{1.4}
SN	all	71.0 _{0.6}	71.0 _{0.6}	all	66.8 _{2.2}	51.6 _{4.3}	all	77.4 _{0.5}	77.1 _{0.6}	all	83.6 _{0.4}	83.2 _{0.5}	all	77.8 _{2.1}	77.6 _{2.2}
CA	512	73.7 _{1.4}	73.4 _{1.8}	8	40.9 _{11.7}	27.8 _{7.6}	64	80.0 _{2.2}	79.8 _{2.5}	512	88.3 _{1.3}	88.2 _{1.3}	48	74.7 _{1.4}	74.4 _{1.7}
SN	512	72.7 _{1.0}	72.5 _{0.9}	16	66.8 _{4.9}	56.0 _{6.2}	48	80.8 _{1.5}	80.7 _{1.6}	512	86.5 _{1.0}	86.4 _{1.1}	64	76.3 _{1.4}	76.2 _{1.4}

Table 2: **Test set results** of CA and SN compared to several baseline and reference approaches. n shows the number of training users. Top results without confidence interval overlaps are highlighted with **bold**.