		Gender		Age		Hate Speech		Bots		Fake News		Depression	
Hyp.	System	Acc.	F_1	Acc.	F_1	Acc.	F_1	Acc.	F_1	Acc.	F_1	Acc.	F_1
H_1	CA SN	$65.1_{1.1} \\ 32.5_{1.8}$	$61.4_{1.5} \\ 31.5_{1.5}$	$43.9_{3.5} \\ 22.9_{2.1}$	$24.8_{4.5} \\ 22.2_{3.6}$	$66.0_{5.2} \\ 45.0_{4.0}$	$65.8_{5.3} \\ 36.4_{7.1}$	$54.4_{0.6} \\ 37.0_{1.6}$	$42.4_{1.2} \\ 28.1_{0.9}$	64.3 _{3.8} 34.3 _{4.8}	63.8 _{3.7} 33.5 _{4.4}	$14.6_{4.7} \\ 26.6_{6.8}$	$6.3_{1.7} \\ 15.9_{4.6}$
H_2	CA SN	$72.2_{0.9} \\ 32.6_{2.3}$	$71.1_{1.0} \\ 31.1_{2.2}$	$43.9_{3.5} \\ 43.2_{4.4}$	$24.8_{4.5} \\ 33.2_{5.6}$	$64.0_{10.7} \\ 47.0_{12.0}$	$62.9_{11.4} \\ 46.3_{12.4}$	$50.0_{0.1}$ $48.6_{0.2}$	$33.4_{0.1}$ $32.7_{0.1}$	$51.0_{1.5} \\ 35.3_{3.6}$	$35.5_{3.1} \ 35.0_{3.4}$	$14.6_{4.7} \\ 30.4_{1.9}$	$6.3_{1.7} \\ 11.9_{0.6}$
H_3	CA SN	61.2 _{0.9} 33.3 _{1.8}	$55.2_{1.4} \\ 32.0_{1.5}$	$14.5_{1.5} \\ 9.1_{3.2}$	$7.5_{1.9} \\ 5.1_{3.0}$	71.2_{2.8} 47.5 _{4.3}	71.0_{2.8} 32.9 _{3.1}	50.0 _{0.1} 48.4 _{0.3}	$33.4_{0.1} $ $43.6_{0.4}$	$50.0_{0.0} \\ 34.7_{8.2}$	$33.3_{0.0}$ $34.1_{8.5}$	27 . 4 _{5.5} 17.9 _{7.4}	22 . 3 _{3.9} 15.5 _{6.1}
H_4	CA SN	$70.9_{1.4} \\ 32.3_{2.1}$	$69.3_{1.6} \\ 30.8_{2.0}$	$14.4_{1.3}$ $51.5_{7.5}$	$6.3_{0.5}$ $37.4_{6.6}$	$59.5_{4.8} $ $40.5_{6.0}$	$55.8_{5.4}$ $34.4_{6.1}$	$50.4_{0.2} $ $48.4_{0.4}$	$34.1_{0.4} \ 32.9_{0.3}$	$46.0_{3.2} \\ 48.3_{2.0}$	$36.0_{3.2} $ $42.3_{3.9}$	$13.4_{6.1} \\ 28.4_{6.0}$	$5.9_{2.3}$ $21.9_{5.2}$
H_5	CA SN	$74.9_{1.5}$ $35.9_{1.5}$	74.7 _{1.5} 32.2 _{1.3}	$24.3_{2.5} \\ 46.5_{7.3}$	$17.3_{1.4} \\ 31.8_{3.6}$	$66.0_{7.4} \\ 50.0_{0.0}$	65.8 _{7.6} 33.3 _{0.0}	$51.0_{0.3}$ $38.8_{0.9}$	$35.6_{0.7} \\ 28.3_{0.5}$	$53.0_{2.7}$ $49.7_{2.7}$	43.0 _{3.3} 35.4 _{3.4}	-	-
H_6	CA SN	$49.6_{0.1} \\ 32.5_{1.1}$	$33.5_{0.2}$ $30.5_{0.9}$	$45.2_{3.7} \\ 31.8_{7.6}$	$27.6_{2.6} \\ 27.8_{8.6}$	64.5 _{4.5} 47.0 _{3.3}	$62.3_{5.4} \\ 34.9_{4.4}$	$50.7_{0.2} \\ 49.2_{0.3}$	$34.9_{0.5} \ 33.0_{0.1}$	$50.0_{0.0}$ $50.0_{0.0}$	$33.3_{0.0}$ $33.3_{0.0}$	-	-
H_7	CA SN	$69.8_{1.6} \\ 38.4_{3.6}$	$69.6_{1.6} \\ 38.1_{3.5}$	-	-	$64.0_{6.0} \\ 44.5_{4.5}$	$62.5_{7.2} \\ 34.7_{4.4}$	$51.0_{0.4}$ $62.2_{1.4}$	$35.5_{0.8}$ $62.2_{1.4}$	$50.0_{0.0} $ $43.7_{2.2}$	$33.3_{0.0}$ $36.3_{1.0}$	-	-
H_8	CA SN	$70.8_{1.6} \\ 42.7_{1.1}$	$69.6_{1.9} \\ 34.9_{1.3}$	-	-	$51.5_{1.4}$ $50.0_{0.0}$	$36.5_{2.9} \ 33.3_{0.0}$	-	-	$50.0_{0.0}$ $55.7_{2.5}$	$33.3_{0.0}$ $51.8_{2.4}$	-	-

Table 1: **English Validation results** of the hypotheses, CA and SN models. Top results are highlighted with \mathbf{bold}

		Ger	nder	Age		Hate Speech		Bots		Fake News	
Hyp.	System	Acc.	F_1	Acc.	F_1	Acc.	F_1	Acc.	F_1	Acc.	$\overline{F_1}$
H_1	CA SN	$66.8_{1.0} \\ 35.9_{1.6}$	$66.2_{1.0} \\ 32.7_{1.3}$	$22.5_{10.3} \\ 34.0_{9.5}$	$13.6_{6.2} \\ 19.4_{5.2}$	$50.0_{0.0}$ $50.0_{0.0}$	33.3 _{0.0} 33.3 _{0.0}	$50.4_{0.2} \\ 42.7_{0.5}$	$34.1_{0.5} \\ 30.7_{0.4}$	$50.7_{1.9} \\ 50.7_{4.7}$	$36.3_{3.5} \\ 41.8_{6.4}$
H_2	CA SN	$65.7_{0.7} \\ 37.3_{1.2}$	$63.4_{0.7} $ $33.6_{1.3}$	$20.0_{2.3} \\ 28.8_{5.1}$	$8.3_{0.8} \\ 20.4_{1.7}$	$50.5_{1.1} \\ 49.0_{1.4}$	$34.4_{2.4} \ 32.9_{0.6}$	$50.7_{0.3}$ $51.2_{1.7}$	$34.8_{0.6}$ $\mathbf{50.1_{1.6}}$	$50.0_{0.0} $ $50.0_{3.5}$	$33.3_{0.0}$ $37.9_{4.8}$
H_3	CA SN	$68.1_{1.1} \\ 33.2_{2.3}$	$67.0_{1.1} \\ 33.0_{2.3}$	$33.3_{3.7} \\ 18.7_{5.6}$	$27.1_{4.3} \\ 8.1_{2.1}$	$50.0_{0.0} $ $49.5_{3.3}$	$33.3_{0.0} \\ 36.9_{3.9}$	$50.8_{0.6} \\ 38.1_{1.6}$	$35.0_{1.3} \\ 31.5_{1.2}$	49.3 _{2.2} 55.0_{6.8}	$35.2_{2.1} \\ 51.5_{6.7}$
H_4	CA SN	68.2 _{2.6} 32.7 _{1.1}	68.1_{2.6} 31.7 _{1.4}	$22.9_{2.6} \\ 15.7_{5.2}$	$11.0_{4.5} \\ 10.9_{4.0}$	61.5 _{8.8} 29.0 _{5.5}	60.5 _{9.0} 28.0 _{5.2}	50.4 _{0.2} 48.0 _{0.6}	$34.1_{0.5} \\ 32.4_{0.3}$	$50.0_{0.0} $ $52.3_{6.7}$	$33.3_{0.0} \\ 46.9_{7.5}$
H_5	CA SN	-	-	9.1 _{5.8} 46.5_{7.3}	8.0 _{7.2} 31.8 _{3.6}	$50.0_{0.0}$ $31.0_{3.8}$	$33.3_{0.0} \\ 26.2_{4.6}$	50.4 _{0.2} 49.3 _{0.6}	$34.1_{0.5} \\ 33.0_{0.3}$	$49.7_{0.7} \\ 50.7_{3.2}$	$33.2_{0.3} \\ 36.4_{4.7}$
H_6	CA SN	- -	-	-	- -	$53.5_{2.2}$ $50.0_{0.0}$	$42.6_{3.4} \\ 33.3_{0.0}$	$51.3_{0.6} \\ 46.0_{1.3}$	$\begin{array}{c} 36.1_{1.2} \\ 40.5_{1.5} \end{array}$	$50.0_{0.0} \\ 40.7_{4.3}$	$33.3_{0.0} \ 36.8_{5.1}$

Table 2: **Spanish Validation results** of the hypotheses, CA and SN models. Top results are highlighted with **bold**