Table 1: Classification results (in %) on the test set.

Class	NB	SVM	F-ULMFiT	B-ULMFiT	F+B-ULMFiT	Count
Casa Civil	66.67	78.95	80.00	82.35	**88.24**	18
Controladoria	80.00	80.00	**100.00**	**100.00**	**100.00**	2
Defensoria Pblica	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	8
Poder Executivo	80.00	85.71	78.26	**90.91**	86.96	10
Poder Legislativo	66.67	**100.00**	66.67	66.67	**100.00**	1
Agricultura	50.00	**66.67**	57.14	50.00	57.14	4
Cultura	**91.67**	**91.67**	**91.67**	**91.67**	**91.67**	13
Desenv. Econmico	**66.67**	**66.67**	**66.67**	**66.67**	**66.67**	4
Desenv. Urbano	75.00	75.00	75.00	**85.71**	75.00	4
Economia	66.67	**100.00**	**100.00**	**100.00**	**100.00**	1
Educao	76.19	**91.67**	81.48	75.00	88.00	13
Fazenda	90.48	90.48	95.00	95.24	**97.56**	21
Justia	**75.00**	66.67	60.00	66.67	66.67	5
Obras	88.24	**90.91**	88.24	76.92	85.71	18
Sade	92.75	92.31	92.31	94.12	**95.52**	32
Segurana Pblica	**98.99**	94.34	94.34	97.09	94.34	50
Transporte	94.74	**97.56**	92.31	92.31	**97.56**	20
Meio Ambiente	**100.00**	**100.00**	66.67	0.00	0.00	2
Tribunal de Contas	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	11
Average F1	82.09	**87.82**	83.46	80.6	83.74	237
Weighted F1	88.68	90.49	88.90	88.88	**90.88**	237
Accuracy	88.61	90.72	89.03	89.45	**91.56**	237

Table 2: Ablation scenarios results (in %) on the test set.

Model	Average F1	Weighted F1	Accuracy
No gradual unfreeezing (f)	86.57 (+3.11)	88.80 (-0.10)	89.03 (+0.00)
No gradual unfreeezing (b)	88.05 (+7.45)	92.30 (+3.42)	92.41 (+2.96)
No gradual unfreeezing (f+b)	89.18 (+5.44)	92.57 (+1.69)	92.83 (+1.27)
Last layer fine-tuning (f)	65.59 (-17.87)	76.51 (-12.39)	77.64 (-11.39)
Last layer fine-tuning (b)	60.93 (-19.67)	76.22 (-12.66)	78.06 (-11.39)
Last layer fine-tuning (f+b)	68.01 (-15.73)	77.92 (-12.96)	79.32 (-12.24)
No LM fine-tuning (f)	39.61 (-43.85)	58.79 (-30.11)	63.71 (-25.32)
No LM fine-tuning (b)	39.81 (-40.79)	61.80 (-27.08)	65.82 (-23.63)
No LM fine-tuning (f+b)	44.32 (-39.42)	66.33 (-24.55)	69.26 (-22.30)
Direct transfer (f)	11.46 (-72.00)	24.59 (-64.31)	34.18 (-54.85)
Direct transfer (b)	12.29 (-68.31)	27.35 (-61.53)	38.40 (-51.05)
Direct transfer (f+b)	12.36 (-71.38)	26.35 (-64.53)	37.97 (-53.59)