1 Cat classification

Model	Macro F1				Precision	l	Recall			
1,10 401	cat	non- cat	Avg.	cat	non- cat	Avg.	cat	non- cat	Avg.	
Majority baseline Random baseline	0.00 0.24	0.92 0.64	0.46 0.44	0.00 0.16	0.85 0.87	0.43 0.51	$0.00 \\ 0.54$	1.00 0.51	$0.50 \\ 0.52$	
LEGAL-BERT DistilRoBERTa	0.75 0.77	$\begin{array}{c} 0.96 \\ 0.96 \end{array}$	0.86 0.87	0.84 0.79	0.96 0.96	0.90 0.87	$0.68 \\ 0.75$	$0.97 \\ 0.97$	0.82 0.86	
Gemini zero-shot Gemini few-shot	$0.58 \\ 0.72$	0.90 0.95	0.74 0.84	0.49 0.72	0.95 0.95	0.72 0.84	0.73 0.72	0.86 0.95	0.79 0.83	
Llama zero-shot Llama few-shot	0.40 0.43	0.66 0.70	0.53 0.57	$0.25 \\ 0.27$	0.99 0.99	0.62 0.63	0.98 0.97	0.49 0.55	0.73 0.76	

Table 1: Results for the CAT classification task. We report the F1 score, precision and recall for the classes, along with their macro average.

2 Level classification

Model	N	Iacro I	71	P	recisio	n	Recall			
1,10 401	1	2	Avg.	1	2	Avg.	1	2	Avg.	
Majority baseline Random baseline	$0.00 \\ 0.33$	$0.86 \\ 0.63$	$0.43 \\ 0.48$	$0.00 \\ 0.25$	$0.76 \\ 0.76$	$0.38 \\ 0.51$	$0.00 \\ 0.49$	1.00 0.54	$0.50 \\ 0.51$	
LEGAL-BERT DistilRoBERTa	0.77 0.65	0.92 0.89	0.84 0.77	0.74 0.69	0.93 0.88	0.84 0.78	0.79 0.62	$0.91 \\ 0.91$	0.85 0.76	
Gemini zero-shot Gemini few-shot	0.40 0.58	0.63 0.86	$0.51 \\ 0.72$	0.29 0.57	0.81 0.87	0.55 0.72	$0.62 \\ 0.59$	$0.52 \\ 0.86$	$0.57 \\ 0.72$	
Llama zero-shot Llama few-shot	$0.38 \\ 0.44$	0.71 0.81	0.54 0.62	$0.31 \\ 0.42$	0.80 0.82	$0.55 \\ 0.62$	0.49 0.46	0.64 0.79	$0.57 \\ 0.63$	

Table 2: Results for the Level classification task. We report the F1 score, precision and recall for the classes, along with their macro average.

3 Type classification

Model	Macro F1			P	recision	ı	Recall			
1,10 401	Closed	Open	Avg.	\overline{Closed}	Open	Avg.	\overline{Closed}	Open	Avg.	
Majority baseline	0.00	0.72	0.36	0.00	0.56	0.28	0.00	1.00	0.50	
Random baseline	0.45	0.53	0.49	0.43	0.55	0.49	0.47	0.51	0.49	
LEGAL-BERT	0.80	0.81	0.81	0.83	0.79	0.81	0.78	0.83	0.81	
DistilRoBERTa	0.82	0.82	0.82	0.84	0.80	0.82	0.79	0.85	0.82	
Gemini zero-shot	0.72	0.69	0.70	0.70	0.71	0.71	0.74	0.67	0.70	
Gemini few-shot	0.82	0.81	0.82	0.81	0.83	0.82	0.84	0.79	0.82	
Llama zero-shot Llama few-shot	0.68 0.70	0.32 0.56	0.50 0.63	0.54 0.61	0.68 0.72	0.61 0.67	0.91 0.83	0.21 0.46	$0.56 \\ 0.64$	

Table 3: Results for the Type classification task. We report the F1 score, precision and recall for the classes, along with their macro average.

4 Detection tasks

4.1 Macro F1

Model		Cate	gory-S	ubcate	Specification					
Wiodel	B-C	B- S	I-C	I-S	0	Avg.	\overline{B} - Sp	I-Sp	0	Avg.
Majority baseline Random baseline	0.00 0.07	0.00 0.13	0.00 0.10	0.00 0.20	0.69 0.29	0.14 0.16	$0.00 \\ 0.04$	$0.00 \\ 0.35$	0.74 0.41	0.25 0.27
LEGAL-BERT DistilRoBERTa	0.60 0.63	0.80 0.81	0.53 0.53	0.73 0.74	0.86 0.88	0.70 0.72	0.70 0.73	0.92 0.87	0.93 0.90	0.85 0.84
Gemini zero-shot Gemini few-shot	0.35 0.64	$0.54 \\ 0.75$	0.21 0.57	$0.42 \\ 0.65$	0.76 0.85	0.46 0.69	$0.00 \\ 0.42$	0.73 0.81	0.87 0.89	0.53 0.71
Llama zero-shot Llama few-shot	0.40 0.29	$0.40 \\ 0.34$	$0.26 \\ 0.37$	0.32 0.30	0.75 0.76	0.43 0.41	$0.02 \\ 0.17$	0.43 0.62	0.78 0.82	0.41 0.54
			I-C	I-S	0	Avg.		I-Sp	0	Avg.
Majority baseline Random baseline			0.00 0.19	$0.00 \\ 0.35$	0.69 0.41	0.23 0.32		0.00 0.44	$0.74 \\ 0.53$	0.37 0.48
LEGAL-BERT DistilRoBERTa			0.59 0.62	0.83 0.81	$0.87 \\ 0.87$	0.76 0.77		0.92 0.89	0.93 0.92	0.92 0.90
Gemini zero-shot Gemini few-shot			0.22 0.50	$0.40 \\ 0.56$	$0.76 \\ 0.85$	$0.46 \\ 0.64$		0.83 0.82	0.87 0.89	0.85 0.86
Llama zero-shot Llama few-shot			$0.26 \\ 0.30$	0.31 0.28	0.75 0.76	0.44 0.45		$0.54 \\ 0.65$	$0.78 \\ 0.82$	0.66 0.73

Table 4: Results for the detection tasks, both in BIO and IO formats. We report the F1 score for the classes, along with their macro average. In the name of the classes, we use C for CATEGORY, S for SubCategory and Sp for Specification.

4.2 Precision and Recall

Model			Prec	ision				Recall					
Wiodel	B-C	B-S	I-C	I-S	0	Avg.	B-C	B-S	I-C	I-S	0	Avg.	
Majority baseline Random baseline	$0.00 \\ 0.04$	$0.00 \\ 0.11$	$0.00 \\ 0.07$	$0.00 \\ 0.22$	$0.53 \\ 0.53$	0.11 0.19	$0.00 \\ 0.26$	$0.00 \\ 0.17$	$0.00 \\ 0.17$	$0.00 \\ 0.19$	1.00 0.20	0.20 0.20	
LEGAL-BERT DistilRoBERTa	0.59 0.59	0.79 0.83	0.47 0.49	0.70 0.80	0.90 0.86	0.69 0.71	0.61 0.66	0.81 0.79	0.62 0.58	0.75 0.69	0.82 0.90	0.72 0.73	
Gemini zero-shot Gemini few-shot	0.70 0.73	0.83 0.80	0.81 0.71	0.84 0.86	0.62 0.76	0.76 0.77	0.24 0.56	0.40 0.70	0.12 0.47	$0.28 \\ 0.52$	0.98 0.96	0.40 0.64	
Llama zero-shot Llama few-shot	$0.67 \\ 0.22$	0.82 0.93	$0.74 \\ 0.31$	0.85 0.76	0.60 0.66	0.74 0.58	0.29 0.44	0.26 0.20	0.16 0.46	0.20 0.19	0.99 0.91	0.38 0.44	
			I-C	I-S	0	Avg.			I-C	I-S	0	Avg.	
Majority baseline Random baseline			0.00 0.12	$0.00 \\ 0.37$	$0.53 \\ 0.54$	0.18 0.35			$0.00 \\ 0.39$	$0.00 \\ 0.34$	1.00 0.33	0.33 0.35	
LEGAL-BERT DistilRoBERTa			0.55 0.51	0.83 0.84	0.89 0.90	0.76 0.75			0.63 0.80	0.83 0.79	0.86 0.84	0.77 0.81	
Gemini zero-shot Gemini few-shot			$0.49 \\ 0.50$	$0.53 \\ 0.54$	$0.62 \\ 0.76$	0.55 0.60			$0.14 \\ 0.50$	$0.32 \\ 0.58$	0.98 0.96	0.48 0.68	
Llama zero-shot Llama few-shot			$0.46 \\ 0.22$	$0.55 \\ 0.52$	0.60 0.66	$0.54 \\ 0.47$			$0.18 \\ 0.50$	$0.22 \\ 0.20$	0.99 0.91	0.46 0.53	

Table 5: Results for the Category-Subcategory detection task, both in BIO and IO formats. We report the Precision and Recall scores for the classes, along with their macro average. In the name of the classes, we use C for Category and S for SubCategory.

Model		Prec	ision			Recall					
Wiodel	\overline{B} - Sp	I-Sp	0	Avg.	\overline{B} - Sp	I-Sp	0	Avg.			
Majority baseline Random baseline	0.00 0.02	0.00 0.39	$0.58 \\ 0.57$	0.19 0.33	0.00 0.37	$0.00 \\ 0.32$	1.00 0.32	0.33 0.34			
LEGAL-BERT DistilRoBERTa	0.66 0.69	0.88 0.90	0.96 0.89	$\begin{array}{c} 0.83 \\ 0.83 \end{array}$	0.73 0.78	0.96 0.85	$0.89 \\ 0.92$	0.86 0.85			
Gemini zero-shot Gemini few-shot	$0.00 \\ 0.35$	0.86 0.90	$0.85 \\ 0.85$	0.57 0.70	$0.00 \\ 0.53$	$0.64 \\ 0.74$	0.90 0.94	$0.51 \\ 0.74$			
Llama zero-shot Llama few-shot	0.02 0.16	0.77 0.88	0.68 0.73	0.49 0.59	0.05 0.18	0.30 0.48	0.91 0.95	0.42 0.54			
		I-Sp	0	Avg.		I- Sp	0	Avg.			
Majority baseline Random baseline		$0.00 \\ 0.41$	$0.58 \\ 0.57$	$0.29 \\ 0.49$		$0.00 \\ 0.48$	1.00 0.49	0.50 0.49			
LEGAL-BERT DistilRoBERTa		0.96 0.91	0.89 0.90	0.92 0.91		0.90 0.92	0.95 0.89	0.93 0.90			
Gemini zero-shot Gemini few-shot		0.84 0.87	0.85 0.85	0.84 0.86		0.81 0.78	0.90 0.94	0.85 0.86			
Llama zero-shot Llama few-shot		0.76 0.87	0.68 0.73	0.72 0.80		0.42 0.51	0.91 0.95	0.67 0.73			

Table 6: Results for the Specification detection task, both in BIO and IO formats. We report the Precision and Recall scores for the classes, along with their macro average. In the name of the classes, we use Sp for Specification.