

Model Performance and Compute Summary (Top & Bottom Models)

Model	F1	Acc	Prec	Recall	Exec (s)	Exec SD (s)	Eval Mean (s)	Prompt Count	Eval Count
Llama3.1 (8b) (system1)	0.5870	62.0000	0.4576	0.8182	0.2795	0.723016	2510000.0000	248.68	17.00
Falcon3 (7b) (system1)	0.5682	62.0000	0.4630	0.7353	0.3150	0.526522	1770000.0000	267.51	26.00
Gemma2 (9b) (cot_nshot)	0.5625	58.0000	0.4355	0.7941	4.0741	0.516945	7570000.0000	2048.00	276.35
Athene-v2 (72b) (cot_nshot)	0.5517	63.8889	0.4706	0.6667	58.5299	7.509540	82708333.3333	2048.00	362.76
Olmo2 (7b) (system1)	0.5479	67.0000	0.4000	0.8696	0.1993	0.368812	4340000.0000	249.70	13.00
Athene-v2 (72b) (cot)	0.5455	60.0000	0.4138	0.8000	62.1297	6.611614	64570000.0000	330.60	425.93
Qwen2.5 (72b) (cot_nshot)	0.5432	63.0000	0.5000	0.5946	57.9709	6.486535	33320000.0000	2048.00	359.62
Marco-o1 (7b) (cot_nshot)	0.5361	55.0000	0.3714	0.9630	2.8180	0.371523	3310000.0000	2048.00	271.72
Athene-v2 (72b) (system1)	0.5333	65.0000	0.4082	0.7692	3.4656	4.634248	0600000.0000	251.95	18.00
Llama3.3 (70b) (cot_nshot)	0.5278	66.0000	0.4318	0.6786	26.4581	3.319229	81990000.0000	2048.00	380.90
Nemotron Mini (4b) (system1)	0.2963	62.0000	0.2857	0.3077	0.2401	0.405013	9400000.0000	261.84	19.90
Mistral (7b) (cot)	0.2941	52.0000	0.2381	0.3846	2.9245	1.099628	87590000.0000	363.84	366.01
Qwen2.5 (7b) (system1)	0.2745	63.0000	0.3333	0.2333	0.2787	0.633416	4870000.0000	252.04	18.00
Tulu3 (8b) (system1)	0.2647	50.0000	0.2000	0.3913	0.2498	0.749213	0290000.0000	249.70	13.00
Marco-o1 (7b) (system1)	0.2553	65.0000	0.3000	0.2222	0.2849	0.716416	5200000.0000	250.05	18.00
Qwen2.5 (1.5b) (cot)	0.2500	64.0000	0.3529	0.1935	1.4244	0.442037	4350000.0000	330.73	347.66
Qwen2.5 (0.5b) (system1)	0.2000	52.0000	0.2069	0.1935	0.1385	0.197467	360000.0000	252.61	18.41
Qwen2.5 (14b) (system1)	0.1702	61.0000	0.1538	0.1905	0.4627	1.021928	3130000.0000	251.46	18.00
Mistral (7b) (cot_nshot)	0.0984	45.0000	0.0857	0.1154	2.4661	0.711920	26680000.0000	2048.00	236.91
Smallthinker (3b) (cot_nshot)	0.0000	0.0000	0.0000	0.0000	5.3261	0.000048	38000000.0000	2048.00	708.00