

Model	Precision			Recall			F1		
	P	I	O	P	I	O	P	I	O
CRF	70.29	47.01	64.78	38.75	43.89	10.47	49.95	45.39	18.02
CRF-Pattern	73.3	52.1	66.37	40.62	45.41	44.07	52.27	48.52	52.96
LSTM-CRF	62.27	52.37	47.91	49.48	40.49	36.16	55.14	45.67	41.21
LSTM-CRF-Pattern (best)	76.10	58.25	44.66	64.75	43.39	35.20	69.97	49.74	39.69
Before CRF	61.87	38.65	46.27	41.45	23.8	37.27	49.64	29.55	41.28
Before BiLSTM	76.10	58.25	44.66	64.75	43.39	35.20	69.97	49.74	39.69
Embedding	55.18	51.07	44.30	54.24	47.41	41.60	54.71	49.17	42.91