

TREC-IS 2019-B Notebook Evaluator v2.3
Run: irlabISIBase (irlabISIBase.run)

EVALUATOR: Alertng Performance
Overall performance

> High Importance Alert Worth: -0.2337175792507211
> Low Importance Alert Worth: -0.13401457274670422
> Accumulated Alert Worth: -0.18386607599871266

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.25439765193940245
> Information Type Recall (positive class, multi-type, macro): 0.3992427887640922
> Information Type F1 (positive class, multi-type, macro): 0.2825324625962825
> Information Type Accuracy (overall, multi-type, macro): 0.852087153960353
> High Importance Information Type Precision (positive class, multi-type, macro): 0.12568812056770887
> High Importance Information Type Recall (positive class, multi-type, macro): 0.2801046395494505
> High Importance Information Type F1 (positive class, multi-type, macro): 0.16951671759358036
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9489564230198236
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.29730082906330035
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.43895550516897264
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.3202043775971832
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8197973976071959

EVALUATOR: Information Priority Level
Overall Performance

> Priority Estimation Error (mean squared error, macro): 0.15522200127656174
> Priority Estimation Error High Importance (mean squared error, macro): 0.15592907977965478
> Priority Estimation Error Low Importance (mean squared error, macro): 0.1549863084421974

LATEX

irlabISIBase & -0.2337 & -0.1839 & 0.1695 & 0.2512 & 0.8521 & 0.1559 & 0.1552 \\

EVALUATOR: Information Type Categorization (Multi-type)
Per Event Performance

floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.050661295226512616
Information Type Recall (positive class, multi-type, macro): 0.06817160826594788
Information Type F1 (positive class, multi-type, macro): 0.030973943340410093
Information Type Accuracy (overall, multi-type, macro): 0.8578620394173092
High Importance Information Type Precision (positive class, multi-type, macro): 0.002525252525252525
High Importance Information Type Recall (positive class, multi-type, macro): 0.027777777777777776
High Importance Information Type F1 (positive class, multi-type, macro): 0.004629629629629629
High Importance Information Type Accuracy (overall, multi-type, macro): 0.919451585261354
Low Importance Information Type Precision (positive class, multi-type, macro): 0.06670664279359932
Low Importance Information Type Recall (positive class, multi-type, macro): 0.08163621842867125
Low Importance Information Type F1 (positive class, multi-type, macro): 0.03975538124400359
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8373321908026278

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.15304767400145905
Information Type Recall (positive class, multi-type, macro): 0.17152890911749874
Information Type F1 (positive class, multi-type, macro): 0.1348781974516147
Information Type Accuracy (overall, multi-type, macro): 0.8592519685039367
High Importance Information Type Precision (positive class, multi-type, macro): 0.038461538461538464
High Importance Information Type Recall (positive class, multi-type, macro): 0.049999999999999996
High Importance Information Type F1 (positive class, multi-type, macro): 0.043478260869565216
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9461942257217849
Low Importance Information Type Precision (positive class, multi-type, macro): 0.19124305251476592
Low Importance Information Type Recall (positive class, multi-type, macro): 0.21203854548999834
Low Importance Information Type F1 (positive class, multi-type, macro): 0.16534484297896448
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8302712160979878

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.25890602429172527
Information Type Recall (positive class, multi-type, macro): 0.3997108142350588
Information Type F1 (positive class, multi-type, macro): 0.23248208770611023
Information Type Accuracy (overall, multi-type, macro): 0.8812600969305331
High Importance Information Type Precision (positive class, multi-type, macro): 0.096212121212121211
High Importance Information Type Recall (positive class, multi-type, macro): 0.3333333333333333
High Importance Information Type F1 (positive class, multi-type, macro): 0.138888888888888892
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9746903607969845
Low Importance Information Type Precision (positive class, multi-type, macro): 0.31313732531826
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4218366412023007
Low Importance Information Type F1 (positive class, multi-type, macro): 0.26367982064518397
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8501166756417161

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.2093142093860414
Information Type Recall (positive class, multi-type, macro): 0.3816086409629307
Information Type F1 (positive class, multi-type, macro): 0.2429218737120036
Information Type Accuracy (overall, multi-type, macro): 0.8472388955582232
High Importance Information Type Precision (positive class, multi-type, macro): 0.10585966952672164
High Importance Information Type Recall (positive class, multi-type, macro): 0.279515146427252
High Importance Information Type F1 (positive class, multi-type, macro): 0.14879240362561444
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9389088968920903
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2437990560058147
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4156398058081568
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2742983699530623
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8166822284469345

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.1310090940355856
Information Type Recall (positive class, multi-type, macro): 0.2790328496916418
Information Type F1 (positive class, multi-type, macro): 0.14487950298534102
Information Type Accuracy (overall, multi-type, macro): 0.8616458333333333
High Importance Information Type Precision (positive class, multi-type, macro): 0.007518796992481203
High Importance Information Type Recall (positive class, multi-type, macro): 0.05555555555555555
High Importance Information Type F1 (positive class, multi-type, macro): 0.013245033112582781
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9751666666666666
Low Importance Information Type Precision (positive class, multi-type, macro): 0.17217252638328706
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3535252810703373
Low Importance Information Type F1 (positive class, multi-type, macro): 0.18875765960959376
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8238055555555557

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.25820145299392955
Information Type Recall (positive class, multi-type, macro): 0.36521880261603085
Information Type F1 (positive class, multi-type, macro): 0.251163426873463
Information Type Accuracy (overall, multi-type, macro): 0.8450208333333337

High Importance Information Type Precision (positive class, multi-type, macro): 0.1848021285035748
High Importance Information Type Recall (positive class, multi-type, macro): 0.26087377267660283
High Importance Information Type F1 (positive class, multi-type, macro): 0.1969340300222653
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9332500000000001
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2826678944907145
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4000004792625069
Low Importance Information Type F1 (positive class, multi-type, macro): 0.26923989249052893
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8156111111111112

EVALUATOR: Information Type Categorization (Multi-type)
Per Information Type Performance

Request-GoodsServices				
	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	7611
Request-GoodsServices	0.07	0.13	0.09	23
micro avg	0.99	0.99	0.99	7634
macro avg	0.53	0.56	0.54	7634
weighted avg	0.99	0.99	0.99	7634
Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7624
Request-SearchAndRescue	0.08	0.20	0.11	10
micro avg	1.00	1.00	1.00	7634
macro avg	0.54	0.60	0.55	7634
weighted avg	1.00	1.00	1.00	7634
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	0.99	0.98	0.99	7563
Request-InformationWanted	0.20	0.45	0.27	71
micro avg	0.98	0.98	0.98	7634
macro avg	0.60	0.72	0.63	7634
weighted avg	0.99	0.98	0.98	7634
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	7610
CallToAction-Volunteer	0.13	0.33	0.19	24
micro avg	0.99	0.99	0.99	7634
macro avg	0.57	0.66	0.59	7634
weighted avg	1.00	0.99	0.99	7634
CallToAction-Donations				
	precision	recall	f1-score	support
Other Classes	1.00	0.99	0.99	7556
CallToAction-Donations	0.36	0.81	0.50	78
micro avg	0.98	0.98	0.98	7634
macro avg	0.68	0.90	0.74	7634
weighted avg	0.99	0.98	0.99	7634
CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	0.98	0.99	7526
CallToAction-MovePeople	0.22	0.37	0.28	108
micro avg	0.97	0.97	0.97	7634
macro avg	0.61	0.68	0.63	7634
weighted avg	0.98	0.97	0.98	7634
Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	0.95	0.70	0.81	7150
Report-FirstPartyObservation	0.10	0.48	0.16	484
micro avg	0.69	0.69	0.69	7634
macro avg	0.53	0.59	0.49	7634
weighted avg	0.90	0.69	0.77	7634

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.96	0.84	0.90	7317	
Report-ThirdPartyObservation	0.06	0.25	0.10	317	
micro avg	0.81	0.81	0.81	7634	
macro avg	0.51	0.55	0.50	7634	
weighted avg	0.93	0.81	0.86	7634	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.98	0.96	0.97	7334	
Report-Weather	0.33	0.51	0.40	300	
micro avg	0.94	0.94	0.94	7634	
macro avg	0.65	0.73	0.68	7634	
weighted avg	0.95	0.94	0.95	7634	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.95	0.91	0.93	7168	
Report-EmergingThreats	0.19	0.32	0.24	466	
micro avg	0.88	0.88	0.88	7634	
macro avg	0.57	0.62	0.59	7634	
weighted avg	0.91	0.88	0.89	7634	

Report-NewSubEvent					
	precision	recall	f1-score	support	
Other Classes	0.98	0.94	0.96	7492	
Report-NewSubEvent	0.07	0.21	0.10	142	
micro avg	0.93	0.93	0.93	7634	
macro avg	0.52	0.58	0.53	7634	
weighted avg	0.97	0.93	0.95	7634	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.88	0.85	0.87	6034	
Report-MultimediaShare	0.51	0.58	0.54	1600	
micro avg	0.79	0.79	0.79	7634	
macro avg	0.70	0.72	0.70	7634	
weighted avg	0.81	0.79	0.80	7634	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.99	0.94	0.96	7484	
Report-ServiceAvailable	0.12	0.45	0.19	150	
micro avg	0.93	0.93	0.93	7634	
macro avg	0.56	0.69	0.58	7634	
weighted avg	0.97	0.93	0.95	7634	

Report-Factoid					
	precision	recall	f1-score	support	
Other Classes	0.92	0.88	0.90	6625	
Report-Factoid	0.39	0.50	0.44	1009	
micro avg	0.83	0.83	0.83	7634	
macro avg	0.65	0.69	0.67	7634	
weighted avg	0.85	0.83	0.84	7634	

Report-Official					
	precision	recall	f1-score	support	

Other Classes	0.98	0.92	0.95	7404
Report-Official	0.12	0.35	0.18	230
micro avg	0.90	0.90	0.90	7634
macro avg	0.55	0.63	0.56	7634
weighted avg	0.95	0.90	0.92	7634

Report-News

	precision	recall	f1-score	support
Other Classes	0.89	0.81	0.85	6158
Report-News	0.42	0.58	0.49	1476
micro avg	0.76	0.76	0.76	7634
macro avg	0.65	0.69	0.67	7634
weighted avg	0.80	0.76	0.78	7634

Report-CleanUp

	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	7559
Report-CleanUp	0.57	0.21	0.31	75
micro avg	0.99	0.99	0.99	7634
macro avg	0.78	0.61	0.65	7634
weighted avg	0.99	0.99	0.99	7634

Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.60	0.85	0.71	3789
Report-Hashtags	0.76	0.45	0.56	3845
micro avg	0.65	0.65	0.65	7634
macro avg	0.68	0.65	0.64	7634
weighted avg	0.68	0.65	0.63	7634

Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.89	0.95	0.92	6750
Report-OriginalEvent	0.26	0.14	0.18	884
micro avg	0.85	0.85	0.85	7634
macro avg	0.57	0.54	0.55	7634
weighted avg	0.82	0.85	0.83	7634

Other-ContextualInformation

	precision	recall	f1-score	support
Other Classes	0.96	0.82	0.89	7364
Other-ContextualInformation	0.03	0.14	0.05	270
micro avg	0.80	0.80	0.80	7634
macro avg	0.50	0.48	0.47	7634
weighted avg	0.93	0.80	0.86	7634

Other-Advice

	precision	recall	f1-score	support
Other Classes	0.96	0.81	0.88	7183
Other-Advice	0.14	0.52	0.22	451
micro avg	0.79	0.79	0.79	7634
macro avg	0.55	0.66	0.55	7634
weighted avg	0.92	0.79	0.84	7634

Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.92	0.72	0.81	5844
Other-Sentiment	0.47	0.80	0.59	1790
micro avg	0.74	0.74	0.74	7634
macro avg	0.69	0.76	0.70	7634

weighted avg	0.81	0.74	0.76	7634
Other-Discussion				
	precision	recall	f1-score	support
Other Classes	0.92	0.67	0.77	7064
Other-Discussion	0.07	0.31	0.11	570
micro avg	0.64	0.64	0.64	7634
macro avg	0.50	0.49	0.44	7634
weighted avg	0.86	0.64	0.72	7634
Other-Irrelevant				
	precision	recall	f1-score	support
Other Classes	0.72	0.69	0.70	5013
Other-Irrelevant	0.45	0.48	0.46	2621
micro avg	0.62	0.62	0.62	7634
macro avg	0.58	0.58	0.58	7634
weighted avg	0.62	0.62	0.62	7634