

TREC-IS 2019-B Notebook Evaluator v2.3
Run: irlabISIBase2 (irlabISIBase2.run)

EVALUATOR: Alertng Performance
Overall performance

> High Importance Alert Worth: -0.41729106628242096
> Low Importance Alert Worth: -0.07663068375479971
> Accumulated Alert Worth: -0.24696087501861033

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.30717498976584184
> Information Type Recall (positive class, multi-type, macro): 0.2618230373364432
> Information Type F1 (positive class, multi-type, macro): 0.254151604244458
> Information Type Accuracy (overall, multi-type, macro): 0.8812112479259454
> High Importance Information Type Precision (positive class, multi-type, macro): 0.16871193296631892
> High Importance Information Type Recall (positive class, multi-type, macro): 0.1144353473141077
> High Importance Information Type F1 (positive class, multi-type, macro): 0.12839546647218117
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9740415684219718
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.35332934203234945
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.31095226734388837
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.29607031683521695
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8502678077606033

EVALUATOR: Information Priority Level
Overall Performance

> Priority Estimation Error (mean squared error, macro): 0.08226194421913904
> Priority Estimation Error High Importance (mean squared error, macro): 0.11454963732282476
> Priority Estimation Error Low Importance (mean squared error, macro): 0.07149937985124383

LATEX

irlabISIBase2 & -0.4173 & -0.2470 & 0.1284 & 0.2215 & 0.8812 & 0.1145 & 0.0823 \\

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

floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.057652070152070155
Information Type Recall (positive class, multi-type, macro): 0.038517333033842464
Information Type F1 (positive class, multi-type, macro): 0.03553391053391053
Information Type Accuracy (overall, multi-type, macro): 0.914845758354756
High Importance Information Type Precision (positive class, multi-type, macro): 0.033333333333333333
High Importance Information Type Recall (positive class, multi-type, macro): 0.027777777777777776
High Importance Information Type F1 (positive class, multi-type, macro): 0.030303030303030303
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9781491002570694
Low Importance Information Type Precision (positive class, multi-type, macro): 0.06575831575831576
Low Importance Information Type Recall (positive class, multi-type, macro): 0.04209718478586402
Low Importance Information Type F1 (positive class, multi-type, macro): 0.03727753727753728
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.893744644387318

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.1509658029878618
Information Type Recall (positive class, multi-type, macro): 0.11909944335529027
Information Type F1 (positive class, multi-type, macro): 0.10805031792736712
Information Type Accuracy (overall, multi-type, macro): 0.8874671916010498
High Importance Information Type Precision (positive class, multi-type, macro): 0.0
High Importance Information Type Recall (positive class, multi-type, macro): 0.0
High Importance Information Type F1 (positive class, multi-type, macro): 0.0
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9763779527559056
Low Importance Information Type Precision (positive class, multi-type, macro): 0.20128773731714908
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1587992578070537
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1440670905698228
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.857830271216098

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.24798267644682245
Information Type Recall (positive class, multi-type, macro): 0.22274794635137496
Information Type F1 (positive class, multi-type, macro): 0.18788408935248954
Information Type Accuracy (overall, multi-type, macro): 0.8964728056004309
High Importance Information Type Precision (positive class, multi-type, macro): 0.023809523809523808
High Importance Information Type Recall (positive class, multi-type, macro): 0.055555555555555555
High Importance Information Type F1 (positive class, multi-type, macro): 0.033333333333333333
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9903069466882068
Low Importance Information Type Precision (positive class, multi-type, macro): 0.32270706065925536
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2784787432833148
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2394010080255416
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.865194758571172

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.2366756810186891
Information Type Recall (positive class, multi-type, macro): 0.26153226094361454
Information Type F1 (positive class, multi-type, macro): 0.2229602119992501
Information Type Accuracy (overall, multi-type, macro): 0.8812358276643993
High Importance Information Type Precision (positive class, multi-type, macro): 0.15950188710547053
High Importance Information Type Recall (positive class, multi-type, macro): 0.15052571112292254
High Importance Information Type F1 (positive class, multi-type, macro): 0.1528408162924556
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9668534080298786
Low Importance Information Type Precision (positive class, multi-type, macro): 0.262400278989762
Low Importance Information Type Recall (positive class, multi-type, macro): 0.29853444421717856
Low Importance Information Type F1 (positive class, multi-type, macro): 0.24633334390151498
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8526966342092392

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.15113286467207301
Information Type Recall (positive class, multi-type, macro): 0.15806032378695545
Information Type F1 (positive class, multi-type, macro): 0.11969187764791434
Information Type Accuracy (overall, multi-type, macro): 0.8907291666666665
High Importance Information Type Precision (positive class, multi-type, macro): 0.060606060606060601
High Importance Information Type Recall (positive class, multi-type, macro): 0.037037037037037035
High Importance Information Type F1 (positive class, multi-type, macro): 0.04597701149425287
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9967500000000001
Low Importance Information Type Precision (positive class, multi-type, macro): 0.18130846602741046
Low Importance Information Type Recall (positive class, multi-type, macro): 0.19840141937026157
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14426349969913485
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8553888888888888

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.3367841730912224
Information Type Recall (positive class, multi-type, macro): 0.2345092992090798
Information Type F1 (positive class, multi-type, macro): 0.22148355852467372
Information Type Accuracy (overall, multi-type, macro): 0.8642291666666669

High Importance Information Type Precision (positive class, multi-type, macro): 0.2276099504360374
High Importance Information Type Recall (positive class, multi-type, macro): 0.09405109986091482
High Importance Information Type F1 (positive class, multi-type, macro): 0.11487300666403222
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9543333333333331
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3731755806429507
Low Importance Information Type Recall (positive class, multi-type, macro): 0.28132869899180146
Low Importance Information Type F1 (positive class, multi-type, macro): 0.25702040914488755
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8341944444444445

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

Request-GoodsServices	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7611
Request-GoodsServices	0.00	0.00	0.00	23
micro avg	1.00	1.00	1.00	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.99	1.00	1.00	7634

Request-SearchAndRescue	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7624
Request-SearchAndRescue	0.00	0.00	0.00	10
micro avg	1.00	1.00	1.00	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	1.00	1.00	1.00	7634

Request-InformationWanted	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	7563
Request-InformationWanted	0.43	0.18	0.26	71
micro avg	0.99	0.99	0.99	7634
macro avg	0.71	0.59	0.63	7634
weighted avg	0.99	0.99	0.99	7634

CallToAction-Volunteer	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7610
CallToAction-Volunteer	0.29	0.25	0.27	24
micro avg	1.00	1.00	1.00	7634
macro avg	0.64	0.62	0.63	7634
weighted avg	1.00	1.00	1.00	7634

CallToAction-Donations	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	7556
CallToAction-Donations	0.53	0.74	0.62	78
micro avg	0.99	0.99	0.99	7634
macro avg	0.76	0.87	0.81	7634
weighted avg	0.99	0.99	0.99	7634

CallToAction-MovePeople	precision	recall	f1-score	support
Other Classes	0.99	0.99	0.99	7526
CallToAction-MovePeople	0.35	0.20	0.26	108
micro avg	0.98	0.98	0.98	7634
macro avg	0.67	0.60	0.62	7634
weighted avg	0.98	0.98	0.98	7634

Report-FirstPartyObservation	precision	recall	f1-score	support
Other Classes	0.95	0.82	0.88	7150
Report-FirstPartyObservation	0.11	0.32	0.16	484
micro avg	0.79	0.79	0.79	7634
macro avg	0.53	0.57	0.52	7634
weighted avg	0.89	0.79	0.83	7634

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.96	0.89	0.93	7317	
Report-ThirdPartyObservation	0.08	0.21	0.12	317	
micro avg	0.87	0.87	0.87	7634	
macro avg	0.52	0.55	0.52	7634	
weighted avg	0.93	0.87	0.89	7634	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.98	0.97	0.97	7334	
Report-Weather	0.38	0.42	0.40	300	
micro avg	0.95	0.95	0.95	7634	
macro avg	0.68	0.70	0.69	7634	
weighted avg	0.95	0.95	0.95	7634	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.94	0.98	0.96	7168	
Report-EmergingThreats	0.30	0.12	0.17	466	
micro avg	0.93	0.93	0.93	7634	
macro avg	0.62	0.55	0.57	7634	
weighted avg	0.91	0.93	0.91	7634	

Report-NewSubEvent					
	precision	recall	f1-score	support	
Other Classes	0.98	0.99	0.99	7492	
Report-NewSubEvent	0.17	0.09	0.12	142	
micro avg	0.97	0.97	0.97	7634	
macro avg	0.58	0.54	0.55	7634	
weighted avg	0.97	0.97	0.97	7634	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.86	0.91	0.88	6034	
Report-MultimediaShare	0.56	0.43	0.48	1600	
micro avg	0.81	0.81	0.81	7634	
macro avg	0.71	0.67	0.68	7634	
weighted avg	0.79	0.81	0.80	7634	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.99	0.98	0.98	7484	
Report-ServiceAvailable	0.19	0.27	0.22	150	
micro avg	0.96	0.96	0.96	7634	
macro avg	0.59	0.62	0.60	7634	
weighted avg	0.97	0.96	0.97	7634	

Report-Factoid					
	precision	recall	f1-score	support	
Other Classes	0.90	0.94	0.92	6625	
Report-Factoid	0.45	0.33	0.38	1009	
micro avg	0.86	0.86	0.86	7634	
macro avg	0.68	0.64	0.65	7634	
weighted avg	0.84	0.86	0.85	7634	

Report-Official					
	precision	recall	f1-score	support	

Other Classes	0.97	0.98	0.98	7404
Report-Official	0.18	0.13	0.15	230
micro avg	0.96	0.96	0.96	7634
macro avg	0.58	0.56	0.56	7634
weighted avg	0.95	0.96	0.95	7634

Report-News

	precision	recall	f1-score	support
Other Classes	0.87	0.86	0.86	6158
Report-News	0.43	0.45	0.44	1476
micro avg	0.78	0.78	0.78	7634
macro avg	0.65	0.66	0.65	7634
weighted avg	0.78	0.78	0.78	7634

Report-CleanUp

	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	7559
Report-CleanUp	0.67	0.13	0.22	75
micro avg	0.99	0.99	0.99	7634
macro avg	0.83	0.57	0.61	7634
weighted avg	0.99	0.99	0.99	7634

Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.54	0.90	0.67	3789
Report-Hashtags	0.71	0.24	0.36	3845
micro avg	0.57	0.57	0.57	7634
macro avg	0.63	0.57	0.52	7634
weighted avg	0.63	0.57	0.52	7634

Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.89	0.98	0.93	6750
Report-OriginalEvent	0.32	0.06	0.11	884
micro avg	0.88	0.88	0.88	7634
macro avg	0.60	0.52	0.52	7634
weighted avg	0.82	0.88	0.84	7634

Other-ContextualInformation

	precision	recall	f1-score	support
Other Classes	0.96	0.88	0.92	7364
Other-ContextualInformation	0.03	0.11	0.05	270
micro avg	0.85	0.85	0.85	7634
macro avg	0.50	0.49	0.48	7634
weighted avg	0.93	0.85	0.89	7634

Other-Advice

	precision	recall	f1-score	support
Other Classes	0.96	0.91	0.94	7183
Other-Advice	0.20	0.34	0.25	451
micro avg	0.88	0.88	0.88	7634
macro avg	0.58	0.63	0.59	7634
weighted avg	0.91	0.88	0.90	7634

Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.91	0.75	0.82	5844
Other-Sentiment	0.48	0.76	0.59	1790
micro avg	0.75	0.75	0.75	7634
macro avg	0.69	0.75	0.70	7634

weighted avg	0.81	0.75	0.77	7634
Other-Discussion				
	precision	recall	f1-score	support
Other Classes	0.92	0.82	0.87	7064
Other-Discussion	0.06	0.13	0.08	570
micro avg	0.77	0.77	0.77	7634
macro avg	0.49	0.48	0.47	7634
weighted avg	0.86	0.77	0.81	7634
Other-Irrelevant				
	precision	recall	f1-score	support
Other Classes	0.70	0.79	0.74	5013
Other-Irrelevant	0.46	0.34	0.39	2621
micro avg	0.64	0.64	0.64	7634
macro avg	0.58	0.57	0.57	7634
weighted avg	0.61	0.64	0.62	7634