

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

EVALUATOR: Alerting Performance
Overall performance

> High Importance Alert Worth: -0.9867435158501441
> Low Importance Alert Worth: -0.0002097260569736577
> Accumulated Alert Worth: -0.4934766209535589

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.21122396869373286
> Information Type Recall (positive class, multi-type, macro): 0.30037539120921625
> Information Type F1 (positive class, multi-type, macro): 0.1756825846498776
> Information Type Accuracy (overall, multi-type, macro): 0.805218976508602
> High Importance Information Type Precision (positive class, multi-type, macro): 0.025641025641025644
> High Importance Information Type Recall (positive class, multi-type, macro): 0.014492753623188406
> High Importance Information Type F1 (positive class, multi-type, macro): 0.018518518518518517
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9772945594271243
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.2730849497113019
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.3956696037378922
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.2280706066936639
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7478604488690944

EVALUATOR: Information Priority Level
Overall Performance

> Priority Estimation Error (mean squared error, macro): 0.05571825866842553
> Priority Estimation Error High Importance (mean squared error, macro): 0.11335776097643219
> Priority Estimation Error Low Importance (mean squared error, macro): 0.03650509123242332

LATEX

IRIT_run_rf_gb & -0.9867 & -0.4935 & 0.0185 & 0.1735 & 0.8052 & 0.1134 & 0.0557 \\

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

floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.08966982839465114
Information Type Recall (positive class, multi-type, macro): 0.19809534019439679
Information Type F1 (positive class, multi-type, macro): 0.04077143043800485
Information Type Accuracy (overall, multi-type, macro): 0.7651028277634961
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): 0.993573264781491
Low Importance Information Type Precision (positive class, multi-type, macro): 0.11955977119286818
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2641271202591957
Low Importance Information Type F1 (positive class, multi-type, macro): 0.054361907250673136
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6889460154241644

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.14762434715950254
Information Type Recall (positive class, multi-type, macro): 0.24971433352457448
Information Type F1 (positive class, multi-type, macro): 0.08789335701709398
Information Type Accuracy (overall, multi-type, macro): 0.774278215223097
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): 0.979002624671916
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1968324628793367
Low Importance Information Type Recall (positive class, multi-type, macro): 0.33295244469943264
Low Importance Information Type F1 (positive class, multi-type, macro): 0.11719114268945864
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7060367454068242

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.25568188294978966
Information Type Recall (positive class, multi-type, macro): 0.3338089847098331
Information Type F1 (positive class, multi-type, macro): 0.19934206192498796
Information Type Accuracy (overall, multi-type, macro): 0.8183898761443188
High Importance Information Type Precision (positive class, multi-type, macro): 0.16666666666666666
High Importance Information Type Recall (positive class, multi-type, macro): 0.08333333333333333
High Importance Information Type F1 (positive class, multi-type, macro): 0.11111111111111111
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9900376952073237
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2853536217108307
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4173008685019997
Low Importance Information Type F1 (positive class, multi-type, macro): 0.22875237886294691
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7611739364566507

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.21140001130007713
Information Type Recall (positive class, multi-type, macro): 0.28365038605751813
Information Type F1 (positive class, multi-type, macro): 0.1597176810872401
Information Type Accuracy (overall, multi-type, macro): 0.7916499933306658
High Importance Information Type Precision (positive class, multi-type, macro): 0.05555555555555555
High Importance Information Type Recall (positive class, multi-type, macro): 0.010416666666666666
High Importance Information Type F1 (positive class, multi-type, macro): 0.017543859649122806
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9754568494064291
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2633481632149177
Low Importance Information Type Recall (positive class, multi-type, macro): 0.37472829252113526
Low Importance Information Type F1 (positive class, multi-type, macro): 0.20710895489994588
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7303810413054109

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.1633565060025568
Information Type Recall (positive class, multi-type, macro): 0.276219607483064
Information Type F1 (positive class, multi-type, macro): 0.11949923582578736
Information Type Accuracy (overall, multi-type, macro): 0.8121666666666666
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): 0.9914166666666667
Low Importance Information Type Precision (positive class, multi-type, macro): 0.21780867467007572
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3682928099774187
Low Importance Information Type F1 (positive class, multi-type, macro): 0.15933231443438314
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7524166666666666

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.19367783652980297
Information Type Recall (positive class, multi-type, macro): 0.30692364094650765
Information Type F1 (positive class, multi-type, macro): 0.17345968645972878
Information Type Accuracy (overall, multi-type, macro): 0.8209166666666668

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): 0.95825
Low Importance Information Type Precision (positive class, multi-type, macro): 0.25823711537307065
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4092315212620102
Low Importance Information Type F1 (positive class, multi-type, macro): 0.23127958194630505
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.775138888888889

 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	0.15	0.09	0.11	23
micro avg	1.00	1.00	1.00	7634
macro avg	0.58	0.54	0.55	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	0.96	0.98	7563
Request-InformationWanted	0.06	0.23	0.09	71
micro avg	0.96	0.96	0.96	7634
macro avg	0.52	0.60	0.53	7634
weighted avg	0.98	0.96	0.97	7634
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7610
CallToAction-Volunteer	0.14	0.25	0.18	24
micro avg	0.99	0.99	0.99	7634
macro avg	0.57	0.62	0.59	7634
weighted avg	0.99	0.99	0.99	7634
CallToAction-Donations				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7556
CallToAction-Donations	0.65	0.58	0.61	78
micro avg	0.99	0.99	0.99	7634
macro avg	0.82	0.79	0.80	7634
weighted avg	0.99	0.99	0.99	7634
CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	7526
CallToAction-MovePeople	0.00	0.00	0.00	108
micro avg	0.98	0.98	0.98	7634
macro avg	0.49	0.50	0.50	7634
weighted avg	0.97	0.98	0.98	7634
Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	0.91	0.19	0.31	7150
Report-FirstPartyObservation	0.06	0.71	0.10	484
micro avg	0.22	0.22	0.22	7634
macro avg	0.48	0.45	0.21	7634
weighted avg	0.85	0.22	0.30	7634

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.98	0.23	0.38	7317	
Report-ThirdPartyObservation	0.05	0.90	0.09	317	
micro avg	0.26	0.26	0.26	7634	
macro avg	0.51	0.57	0.23	7634	
weighted avg	0.94	0.26	0.37	7634	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.96	0.99	0.98	7334	
Report-Weather	0.09	0.02	0.04	300	
micro avg	0.95	0.95	0.95	7634	
macro avg	0.52	0.51	0.51	7634	
weighted avg	0.93	0.95	0.94	7634	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.94	1.00	0.97	7168	
Report-EmergingThreats	0.00	0.00	0.00	466	
micro avg	0.93	0.93	0.93	7634	
macro avg	0.47	0.50	0.48	7634	
weighted avg	0.88	0.93	0.91	7634	

Report-NewSubEvent					
	precision	recall	f1-score	support	
Other Classes	0.98	0.99	0.99	7492	
Report-NewSubEvent	0.00	0.00	0.00	142	
micro avg	0.97	0.97	0.97	7634	
macro avg	0.49	0.50	0.49	7634	
weighted avg	0.96	0.97	0.97	7634	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.95	0.69	0.80	6034	
Report-MultimediaShare	0.43	0.86	0.57	1600	
micro avg	0.73	0.73	0.73	7634	
macro avg	0.69	0.78	0.69	7634	
weighted avg	0.84	0.73	0.75	7634	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.98	1.00	0.99	7484	
Report-ServiceAvailable	0.00	0.00	0.00	150	
micro avg	0.98	0.98	0.98	7634	
macro avg	0.49	0.50	0.49	7634	
weighted avg	0.96	0.98	0.97	7634	

Report-Factoid					
	precision	recall	f1-score	support	
Other Classes	0.87	1.00	0.93	6625	
Report-Factoid	0.59	0.04	0.07	1009	
micro avg	0.87	0.87	0.87	7634	
macro avg	0.73	0.52	0.50	7634	
weighted avg	0.83	0.87	0.82	7634	

Report-Official					
	precision	recall	f1-score	support	

Other Classes	0.97	1.00	0.98	7404
Report-Official	0.00	0.00	0.00	230
micro avg	0.97	0.97	0.97	7634
macro avg	0.48	0.50	0.49	7634
weighted avg	0.94	0.97	0.95	7634

Report-News

	precision	recall	f1-score	support
Other Classes	1.00	0.00	0.00	6158
Report-News	0.19	1.00	0.32	1476
micro avg	0.19	0.19	0.19	7634
macro avg	0.60	0.50	0.16	7634
weighted avg	0.84	0.19	0.06	7634

Report-CleanUp

	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	7559
Report-CleanUp	0.40	0.13	0.20	75
micro avg	0.99	0.99	0.99	7634
macro avg	0.70	0.57	0.60	7634
weighted avg	0.99	0.99	0.99	7634

Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.79	0.82	0.80	3789
Report-Hashtags	0.82	0.79	0.80	3845
micro avg	0.80	0.80	0.80	7634
macro avg	0.80	0.80	0.80	7634
weighted avg	0.80	0.80	0.80	7634

Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.88	1.00	0.94	6750
Report-OriginalEvent	0.22	0.01	0.02	884
micro avg	0.88	0.88	0.88	7634
macro avg	0.55	0.50	0.48	7634
weighted avg	0.81	0.88	0.83	7634

Other-ContextualInformation

	precision	recall	f1-score	support
Other Classes	0.96	0.93	0.95	7364
Other-ContextualInformation	0.04	0.07	0.05	270
micro avg	0.90	0.90	0.90	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.93	0.90	0.92	7634

Other-Advice

	precision	recall	f1-score	support
Other Classes	0.94	1.00	0.97	7183
Other-Advice	0.33	0.01	0.01	451
micro avg	0.94	0.94	0.94	7634
macro avg	0.64	0.50	0.49	7634
weighted avg	0.91	0.94	0.91	7634

Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.00	0.00	0.00	5844
Other-Sentiment	0.23	1.00	0.38	1790
micro avg	0.23	0.23	0.23	7634
macro avg	0.12	0.50	0.19	7634

weighted avg	0.05	0.23	0.09	7634
Other-Discussion				
	precision	recall	f1-score	support
Other Classes	0.93	0.95	0.94	7064
Other-Discussion	0.08	0.05	0.06	570
micro avg	0.89	0.89	0.89	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.86	0.89	0.87	7634
Other-Irrelevant				
	precision	recall	f1-score	support
Other Classes	0.74	0.79	0.77	5013
Other-Irrelevant	0.55	0.48	0.51	2621
micro avg	0.69	0.69	0.69	7634
macro avg	0.65	0.64	0.64	7634
weighted avg	0.68	0.69	0.68	7634