

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

EVALUATOR: Alertng 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): 0.1804092759447765
> Information Type Recall (positive class, multi-type, macro): 0.3669165477053846
> Information Type F1 (positive class, multi-type, macro): 0.18862399002702834
> Information Type Accuracy (overall, multi-type, macro): 0.7614618810584228
> High Importance Information Type Precision (positive class, multi-type, macro): 0.04934640522875816
> High Importance Information Type Recall (positive class, multi-type, macro): 0.03682588283323127
> High Importance Information Type F1 (positive class, multi-type, macro): 0.03978747186366415
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9752205047594096
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.22409689951678258
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.4769467693294357
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.23823616274814968
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6902090064914272

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_threshold & -0.9867 & -0.4935 & 0.0398 & 0.1774 & 0.7615 & 0.1134 & 0.0557 \\

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

floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.06661510870966582
Information Type Recall (positive class, multi-type, macro): 0.24429840010618312
Information Type F1 (positive class, multi-type, macro): 0.060421667125132326
Information Type Accuracy (overall, multi-type, macro): 0.7248286203941731
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): 0.9910025706940875
Low Importance Information Type Precision (positive class, multi-type, macro): 0.08882014494622109
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3257312001415775
Low Importance Information Type F1 (positive class, multi-type, macro): 0.08056222283350976
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6361039702942016

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.146380061199615
Information Type Recall (positive class, multi-type, macro): 0.289014390896921
Information Type F1 (positive class, multi-type, macro): 0.11646882277907161
Information Type Accuracy (overall, multi-type, macro): 0.7483595800524934
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): 0.9776902887139108
Low Importance Information Type Precision (positive class, multi-type, macro): 0.19517341493282
Low Importance Information Type Recall (positive class, multi-type, macro): 0.38535252119589464
Low Importance Information Type F1 (positive class, multi-type, macro): 0.15529176370542883
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6719160104986878

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.1886852928401587
Information Type Recall (positive class, multi-type, macro): 0.377486671857399
Information Type F1 (positive class, multi-type, macro): 0.19873038140882346
Information Type Accuracy (overall, multi-type, macro): 0.7827813677975229
High Importance Information Type Precision (positive class, multi-type, macro): 0.041666666666666666
High Importance Information Type Recall (positive class, multi-type, macro): 0.083333333333333333
High Importance Information Type F1 (positive class, multi-type, macro): 0.055555555555555555
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9868066774367258
Low Importance Information Type Precision (positive class, multi-type, macro): 0.23769150156465604
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4755377846987543
Low Importance Information Type F1 (positive class, multi-type, macro): 0.24645532335991277
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7147729312511218

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.19841094593162878
Information Type Recall (positive class, multi-type, macro): 0.35603378575059746
Information Type F1 (positive class, multi-type, macro): 0.18321218977586917
Information Type Accuracy (overall, multi-type, macro): 0.7526510604241698
High Importance Information Type Precision (positive class, multi-type, macro): 0.15128205128205127
High Importance Information Type Recall (positive class, multi-type, macro): 0.03874063670411985
High Importance Information Type F1 (positive class, multi-type, macro): 0.06069094304388422
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9751233826864079
Low Importance Information Type Precision (positive class, multi-type, macro): 0.21412057748148794
Low Importance Information Type Recall (positive class, multi-type, macro): 0.46179816876609003
Low Importance Information Type F1 (positive class, multi-type, macro): 0.22405260535319757
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6784936196700904

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.1275149803836073
Information Type Recall (positive class, multi-type, macro): 0.3510997819911288
Information Type F1 (positive class, multi-type, macro): 0.12294430194439891
Information Type Accuracy (overall, multi-type, macro): 0.7513333333333332
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): 0.9878333333333335
Low Importance Information Type Precision (positive class, multi-type, macro): 0.17001997384480974
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4681330426548384
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1639257359258652
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6725

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.16104856317634472
Information Type Recall (positive class, multi-type, macro): 0.36146733643290724
Information Type F1 (positive class, multi-type, macro): 0.1773755497780268
Information Type Accuracy (overall, multi-type, macro): 0.7839583333333334

High Importance Information Type Precision (positive class, multi-type, macro): 0.037037037037037035
High Importance Information Type Recall (positive class, multi-type, macro): 0.007283704442228869
High Importance Information Type F1 (positive class, multi-type, macro): 0.011661011661011661
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9559166666666666
Low Importance Information Type Precision (positive class, multi-type, macro): 0.20238573855611397
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4795285470964667
Low Importance Information Type F1 (positive class, multi-type, macro): 0.23261372915036516
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7266388888888888

 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	0.17	0.17	0.17	23
micro avg	0.99	0.99	0.99	7634
macro avg	0.58	0.59	0.58	7634
weighted avg	1.00	0.99	0.99	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	0.99	0.99	0.99	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	1.00	0.99	1.00	7634
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	0.99	0.94	0.97	7563
Request-InformationWanted	0.04	0.27	0.07	71
micro avg	0.94	0.94	0.94	7634
macro avg	0.52	0.61	0.52	7634
weighted avg	0.98	0.94	0.96	7634
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	7610
CallToAction-Volunteer	0.14	0.29	0.19	24
micro avg	0.99	0.99	0.99	7634
macro avg	0.57	0.64	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	0.51	0.58	0.54	78
micro avg	0.99	0.99	0.99	7634
macro avg	0.75	0.79	0.77	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	0.85	0.00	0.00	7150
Report-FirstPartyObservation	0.06	1.00	0.12	484
micro avg	0.06	0.06	0.06	7634
macro avg	0.45	0.50	0.06	7634
weighted avg	0.80	0.06	0.01	7634

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.00	0.00	0.00	7317	
Report-ThirdPartyObservation	0.04	1.00	0.08	317	
micro avg	0.04	0.04	0.04	7634	
macro avg	0.02	0.50	0.04	7634	
weighted avg	0.00	0.04	0.00	7634	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.96	0.98	0.97	7334	
Report-Weather	0.07	0.04	0.05	300	
micro avg	0.94	0.94	0.94	7634	
macro avg	0.52	0.51	0.51	7634	
weighted avg	0.93	0.94	0.93	7634	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.94	0.99	0.96	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	0.01	0.01	0.01	142	
micro avg	0.97	0.97	0.97	7634	
macro avg	0.50	0.50	0.50	7634	
weighted avg	0.96	0.97	0.97	7634	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.97	0.33	0.49	6034	
Report-MultimediaShare	0.28	0.97	0.43	1600	
micro avg	0.46	0.46	0.46	7634	
macro avg	0.62	0.65	0.46	7634	
weighted avg	0.83	0.46	0.48	7634	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.98	0.99	0.99	7484	
Report-ServiceAvailable	0.12	0.04	0.06	150	
micro avg	0.98	0.98	0.98	7634	
macro avg	0.55	0.52	0.52	7634	
weighted avg	0.96	0.98	0.97	7634	

Report-Factoid					
	precision	recall	f1-score	support	
Other Classes	0.89	0.95	0.92	6625	
Report-Factoid	0.36	0.20	0.25	1009	
micro avg	0.85	0.85	0.85	7634	
macro avg	0.62	0.57	0.58	7634	
weighted avg	0.82	0.85	0.83	7634	

Report-Official					
	precision	recall	f1-score	support	

Other Classes	0.97	1.00	0.98	7404
Report-Official	0.03	0.00	0.01	230
micro avg	0.97	0.97	0.97	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.94	0.97	0.95	7634

Report-News

	precision	recall	f1-score	support
Other Classes	0.00	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	0.10	0.50	0.16	7634
weighted avg	0.04	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	0.97	0.65	0.78	3789
Report-Hashtags	0.74	0.98	0.84	3845
micro avg	0.82	0.82	0.82	7634
macro avg	0.85	0.81	0.81	7634
weighted avg	0.85	0.82	0.81	7634

Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.89	0.99	0.93	6750
Report-OriginalEvent	0.24	0.03	0.05	884
micro avg	0.88	0.88	0.88	7634
macro avg	0.56	0.51	0.49	7634
weighted avg	0.81	0.88	0.83	7634

Other-ContextualInformation

	precision	recall	f1-score	support
Other Classes	0.96	0.86	0.91	7364
Other-ContextualInformation	0.04	0.14	0.06	270
micro avg	0.83	0.83	0.83	7634
macro avg	0.50	0.50	0.48	7634
weighted avg	0.93	0.83	0.88	7634

Other-Advice

	precision	recall	f1-score	support
Other Classes	0.94	0.99	0.97	7183
Other-Advice	0.16	0.03	0.05	451
micro avg	0.93	0.93	0.93	7634
macro avg	0.55	0.51	0.51	7634
weighted avg	0.90	0.93	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	0.92	0.77	0.84	7064
Other-Discussion	0.07	0.21	0.11	570
micro avg	0.73	0.73	0.73	7634
macro avg	0.50	0.49	0.47	7634
weighted avg	0.86	0.73	0.78	7634
Other-Irrelevant				
	precision	recall	f1-score	support
Other Classes	0.78	0.50	0.61	5013
Other-Irrelevant	0.43	0.72	0.54	2621
micro avg	0.58	0.58	0.58	7634
macro avg	0.60	0.61	0.57	7634
weighted avg	0.66	0.58	0.58	7634