

TREC-IS 2019-B Notebook Evaluator v2.3  
Run: IITBHU\_run2 (IITBHU\_run2)

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EVALUATOR: Alertng Performance  
Overall performance  
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> High Importance Alert Worth: -0.9793577981651376  
> Low Importance Alert Worth: 0.0  
> Accumulated Alert Worth: -0.4896788990825688

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EVALUATOR: Information Type Categorization  
Overall performance  
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> Information Type Precision (positive class, multi-type, macro): 0.116393696783473  
> Information Type Recall (positive class, multi-type, macro): 0.13323273378182562  
> Information Type F1 (positive class, multi-type, macro): 0.05488927520085425  
> Information Type Accuracy (overall, multi-type, macro): 0.789184753266386  
> High Importance Information Type Precision (positive class, multi-type, macro): 0.023784580151219408  
> High Importance Information Type Recall (positive class, multi-type, macro): 0.0778392425810904  
> High Importance Information Type F1 (positive class, multi-type, macro): 0.027476299452159375  
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9116726055501566  
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.145638680983132  
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.15072541521363672  
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.06354600438465263  
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7505043788609848

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EVALUATOR: Information Priority Level  
Overall Performance  
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> Priority Estimation Error (mean squared error, macro): 0.1192352411056502  
> Priority Estimation Error High Importance (mean squared error, macro): 0.21742274237735196  
> Priority Estimation Error Low Importance (mean squared error, macro): 0.08822866175669171

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LATEX  
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IITBHU\_run2 & -0.9794 & -0.4897 & 0.0275 & 0.0325 & 0.7892 & 0.2174 & 0.1192 \\

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EVALUATOR: Information Type Categorization (Multi-type)  
Per Event Performance  
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albertaWildfires2019

Information Type Precision (positive class, multi-type, macro): 0.08017295075854051  
Information Type Recall (positive class, multi-type, macro): 0.11221449263477172  
Information Type F1 (positive class, multi-type, macro): 0.038362491196465426  
Information Type Accuracy (overall, multi-type, macro): 0.7525600000000003  
High Importance Information Type Precision (positive class, multi-type, macro): 0.009171410499683745  
High Importance Information Type Recall (positive class, multi-type, macro): 0.09385113268608414  
High Importance Information Type F1 (positive class, multi-type, macro): 0.016709881878421203  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8980833333333332  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.10259448978765316  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.11801344840804147  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.04520015729690045  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7066052631578948

cycloneKenneth2019

Information Type Precision (positive class, multi-type, macro): 0.07003972488227912  
Information Type Recall (positive class, multi-type, macro): 0.14791086773889173  
Information Type F1 (positive class, multi-type, macro): 0.060173027842408106  
Information Type Accuracy (overall, multi-type, macro): 0.7449124562281141  
High Importance Information Type Precision (positive class, multi-type, macro): 0.060983214604709936  
High Importance Information Type Recall (positive class, multi-type, macro): 0.09343970605811752  
High Importance Information Type F1 (positive class, multi-type, macro): 0.04821013562079294  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8765215941303984  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.07289967549624835  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16511228721703097  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.0639507832808129  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7033516758379191

philippinesEarthquake2019

Information Type Precision (positive class, multi-type, macro): 0.10090467464480249  
Information Type Recall (positive class, multi-type, macro): 0.09281391005770546  
Information Type F1 (positive class, multi-type, macro): 0.0462734872182218  
Information Type Accuracy (overall, multi-type, macro): 0.855859649122807  
High Importance Information Type Precision (positive class, multi-type, macro): 0.011396011396011397  
High Importance Information Type Recall (positive class, multi-type, macro): 0.010101010101010102  
High Importance Information Type F1 (positive class, multi-type, macro): 0.0107095046854083  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9680868838763576  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12917056830231546  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.11893377320192505  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.05750421854437342  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8204194697269489

coloradoStemShooting2019

Information Type Precision (positive class, multi-type, macro): 0.06286492249206152  
Information Type Recall (positive class, multi-type, macro): 0.05856308947359354  
Information Type F1 (positive class, multi-type, macro): 0.04510154446326844  
Information Type Accuracy (overall, multi-type, macro): 0.8540435835351089  
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): 0.889157923056228  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.08271700327902831  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.07705669667578097  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.059344137451669  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8429548447389662

southAfricaFloods2019

Information Type Precision (positive class, multi-type, macro): 0.09695989347293356  
Information Type Recall (positive class, multi-type, macro): 0.17177344455118604  
Information Type F1 (positive class, multi-type, macro): 0.0413601859260252  
Information Type Accuracy (overall, multi-type, macro): 0.7751519644180874  
High Importance Information Type Precision (positive class, multi-type, macro): 0.00832144553970517  
High Importance Information Type Recall (positive class, multi-type, macro): 0.14227642276422764  
High Importance Information Type F1 (positive class, multi-type, macro): 0.015723270440251572  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8985668396342971  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12495098228944819  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1810882935365413  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.04945605397416424  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7361788459287582

sandiegoSynagogueShooting2019

Information Type Precision (positive class, multi-type, macro): 0.13509964066480207  
Information Type Recall (positive class, multi-type, macro): 0.09079710518764557  
Information Type F1 (positive class, multi-type, macro): 0.03254199002860008  
Information Type Accuracy (overall, multi-type, macro): 0.7410309278350516

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): 0.9565537555228277  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.17776268508526588  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.11946987524690207  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.042818407932368525  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6729710875125958

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EVALUATOR: Information Type Categorization (Multi-type)  
Per Information Type Performance  
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Request-GoodsServices	precision	recall	f1-score	support
Other Classes	1.00	0.94	0.97	9223
Request-GoodsServices	0.00	0.00	0.00	38
micro avg	0.94	0.94	0.94	9261
macro avg	0.50	0.47	0.48	9261
weighted avg	0.99	0.94	0.96	9261

Request-SearchAndRescue	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	9252
Request-SearchAndRescue	0.00	0.00	0.00	9
micro avg	0.99	0.99	0.99	9261
macro avg	0.50	0.50	0.50	9261
weighted avg	1.00	0.99	1.00	9261

Request-InformationWanted	precision	recall	f1-score	support
Other Classes	1.00	0.59	0.74	9228
Request-InformationWanted	0.00	0.45	0.01	33
micro avg	0.58	0.58	0.58	9261
macro avg	0.50	0.52	0.37	9261
weighted avg	0.99	0.58	0.73	9261

CallToAction-Volunteer	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	9237
CallToAction-Volunteer	0.00	0.00	0.00	24
micro avg	0.99	0.99	0.99	9261
macro avg	0.50	0.50	0.50	9261
weighted avg	0.99	0.99	0.99	9261

CallToAction-Donations	precision	recall	f1-score	support
Other Classes	0.99	0.61	0.75	9155
CallToAction-Donations	0.01	0.40	0.02	106
micro avg	0.60	0.60	0.60	9261
macro avg	0.50	0.50	0.39	9261
weighted avg	0.98	0.60	0.74	9261

CallToAction-MovePeople	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	9158
CallToAction-MovePeople	0.00	0.00	0.00	103
micro avg	0.99	0.99	0.99	9261
macro avg	0.49	0.50	0.50	9261
weighted avg	0.98	0.99	0.98	9261

Report-FirstPartyObservation	precision	recall	f1-score	support
Other Classes	0.97	0.94	0.95	8942
Report-FirstPartyObservation	0.05	0.09	0.06	319
micro avg	0.91	0.91	0.91	9261
macro avg	0.51	0.51	0.51	9261
weighted avg	0.93	0.91	0.92	9261

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.85	0.95	0.90	7785	
Report-ThirdPartyObservation	0.29	0.10	0.15	1476	
micro avg	0.82	0.82	0.82	9261	
macro avg	0.57	0.53	0.52	9261	
weighted avg	0.76	0.82	0.78	9261	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.88	1.00	0.93	8123	
Report-Weather	0.00	0.00	0.00	1138	
micro avg	0.88	0.88	0.88	9261	
macro avg	0.44	0.50	0.47	9261	
weighted avg	0.77	0.88	0.82	9261	

Report-Location					
	precision	recall	f1-score	support	
Other Classes	0.46	0.97	0.63	4351	
Report-Location	0.31	0.01	0.02	4910	
micro avg	0.46	0.46	0.46	9261	
macro avg	0.39	0.49	0.33	9261	
weighted avg	0.38	0.46	0.31	9261	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.94	0.66	0.78	8621	
Report-EmergingThreats	0.09	0.46	0.15	640	
micro avg	0.65	0.65	0.65	9261	
macro avg	0.52	0.56	0.47	9261	
weighted avg	0.88	0.65	0.74	9261	

Report-NewSubEvent					
	precision	recall	f1-score	support	
Other Classes	0.98	1.00	0.99	9051	
Report-NewSubEvent	0.05	0.00	0.01	210	
micro avg	0.98	0.98	0.98	9261	
macro avg	0.51	0.50	0.50	9261	
weighted avg	0.96	0.98	0.97	9261	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.62	1.00	0.76	5719	
Report-MultimediaShare	0.37	0.00	0.01	3542	
micro avg	0.62	0.62	0.62	9261	
macro avg	0.49	0.50	0.38	9261	
weighted avg	0.52	0.62	0.47	9261	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.96	0.96	0.96	8916	
Report-ServiceAvailable	0.00	0.00	0.00	345	
micro avg	0.93	0.93	0.93	9261	
macro avg	0.48	0.48	0.48	9261	
weighted avg	0.93	0.93	0.93	9261	

Report-Factoid					
	precision	recall	f1-score	support	

Other Classes	0.62	0.55	0.58	6019
Report-Factoid	0.31	0.38	0.34	3242
micro avg	0.49	0.49	0.49	9261
macro avg	0.46	0.46	0.46	9261
weighted avg	0.51	0.49	0.50	9261

Report-Official	precision	recall	f1-score	support
Other Classes	0.92	0.99	0.95	8486
Report-Official	0.11	0.01	0.02	775
micro avg	0.91	0.91	0.91	9261
macro avg	0.52	0.50	0.49	9261
weighted avg	0.85	0.91	0.87	9261

Report-News	precision	recall	f1-score	support
Other Classes	0.69	0.98	0.81	6421
Report-News	0.25	0.02	0.03	2840
micro avg	0.68	0.68	0.68	9261
macro avg	0.47	0.50	0.42	9261
weighted avg	0.56	0.68	0.57	9261

Report-CleanUp	precision	recall	f1-score	support
Other Classes	0.99	0.91	0.95	9201
Report-CleanUp	0.01	0.13	0.02	60
micro avg	0.91	0.91	0.91	9261
macro avg	0.50	0.52	0.48	9261
weighted avg	0.99	0.91	0.94	9261

Report-Hashtags	precision	recall	f1-score	support
Other Classes	0.73	1.00	0.84	6757
Report-Hashtags	0.50	0.00	0.00	2504
micro avg	0.73	0.73	0.73	9261
macro avg	0.61	0.50	0.42	9261
weighted avg	0.67	0.73	0.62	9261

Report-OriginalEvent	precision	recall	f1-score	support
Other Classes	0.90	1.00	0.95	8322
Report-OriginalEvent	0.00	0.00	0.00	939
micro avg	0.90	0.90	0.90	9261
macro avg	0.45	0.50	0.47	9261
weighted avg	0.81	0.90	0.85	9261

Other-ContextualInformation	precision	recall	f1-score	support
Other Classes	0.98	0.63	0.76	9014
Other-ContextualInformation	0.04	0.51	0.07	247
micro avg	0.62	0.62	0.62	9261
macro avg	0.51	0.57	0.42	9261
weighted avg	0.95	0.62	0.75	9261

Other-Advice	precision	recall	f1-score	support
Other Classes	0.97	1.00	0.98	8947
Other-Advice	0.00	0.00	0.00	314
micro avg	0.97	0.97	0.97	9261
macro avg	0.48	0.50	0.49	9261

weighted avg	0.93	0.97	0.95	9261
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Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.92	1.00	0.96	8481
Other-Sentiment	0.20	0.00	0.01	780
micro avg	0.91	0.91	0.91	9261
macro avg	0.56	0.50	0.48	9261
weighted avg	0.86	0.91	0.88	9261

Other-Discussion

	precision	recall	f1-score	support
Other Classes	0.95	0.97	0.96	8805
Other-Discussion	0.01	0.01	0.01	456
micro avg	0.92	0.92	0.92	9261
macro avg	0.48	0.49	0.48	9261
weighted avg	0.90	0.92	0.91	9261

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.58	0.17	0.27	6224
Other-Irrelevant	0.31	0.74	0.43	3037
micro avg	0.36	0.36	0.36	9261
macro avg	0.44	0.46	0.35	9261
weighted avg	0.49	0.36	0.32	9261