

TREC-IS 2019-B Notebook Evaluator v2.3  
Run: run4\_all (run4\_all)

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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): 0.14268105131612582  
> Information Type Recall (positive class, multi-type, macro): 0.018915051721113404  
> Information Type F1 (positive class, multi-type, macro): 0.027841986509391445  
> Information Type Accuracy (overall, multi-type, macro): 0.8757974300831444  
> High Importance Information Type Precision (positive class, multi-type, macro): 0.08335940555936316  
> High Importance Information Type Recall (positive class, multi-type, macro): 0.02691002004404214  
> High Importance Information Type F1 (positive class, multi-type, macro): 0.03772035259772576  
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9718532915811827  
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.16141420260773506  
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.01639032488229381  
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.02472250248149639  
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8454640001363953

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EVALUATOR: Information Priority Level  
Overall Performance  
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> Priority Estimation Error (mean squared error, macro): 0.11774806926502293  
> Priority Estimation Error High Importance (mean squared error, macro): 0.2138334375416204  
> Priority Estimation Error Low Importance (mean squared error, macro): 0.08740532138820264

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LATEX  
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run4\_all & -0.9794 & -0.4897 & 0.0377 & 0.0000 & 0.8758 & 0.2138 & 0.1177 \\\

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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): 0.12918970855872092  
Information Type Recall (positive class, multi-type, macro): 0.02213134060134842  
Information Type F1 (positive class, multi-type, macro): 0.03289743178121457  
Information Type Accuracy (overall, multi-type, macro): 0.8649799999999999  
High Importance Information Type Precision (positive class, multi-type, macro): 0.06839904420549582  
High Importance Information Type Recall (positive class, multi-type, macro): 0.03188207928802589  
High Importance Information Type F1 (positive class, multi-type, macro): 0.04339265429761454  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9710833333333332  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.14838676045973936  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.019052159963450267  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.029583150986561953  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8314736842105264

cycloneKenneth2019

Information Type Precision (positive class, multi-type, macro): 0.1479168280397477  
Information Type Recall (positive class, multi-type, macro): 0.01502934720122493  
Information Type F1 (positive class, multi-type, macro): 0.023694514712869416  
Information Type Accuracy (overall, multi-type, macro): 0.8534867433716861  
High Importance Information Type Precision (positive class, multi-type, macro): 0.08736824769433464  
High Importance Information Type Recall (positive class, multi-type, macro): 0.013756318169725992  
High Importance Information Type F1 (positive class, multi-type, macro): 0.022705915969258052  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9439719859929966  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1670374323593518  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.0154313563690667  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.024006703789799324  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8249124562281142

philippinesEarthquake2019

Information Type Precision (positive class, multi-type, macro): 0.0818745348858001  
Information Type Recall (positive class, multi-type, macro): 0.015751378743024104  
Information Type F1 (positive class, multi-type, macro): 0.014810239600599797  
Information Type Accuracy (overall, multi-type, macro): 0.9114786967418547  
High Importance Information Type Precision (positive class, multi-type, macro): 0.040106951871657755  
High Importance Information Type Recall (positive class, multi-type, macro): 0.0041592394533571005  
High Importance Information Type F1 (positive class, multi-type, macro): 0.007463125110183935  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.97468671679198  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.09506429794289768  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.019412054308182103  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.01713038101862586  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8915182693576046

coloradoStemShooting2019

Information Type Precision (positive class, multi-type, macro): 0.012758620689655173  
Information Type Recall (positive class, multi-type, macro): 0.00937799043062201  
Information Type F1 (positive class, multi-type, macro): 0.007478260869565217  
Information Type Accuracy (overall, multi-type, macro): 0.9033091202582729  
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): 0.9986548291633036  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.01678765880217786  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.012339461092923698  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.009839816933638444  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8731999490251051

southAfricaFloods2019

Information Type Precision (positive class, multi-type, macro): 0.13935298062887125  
Information Type Recall (positive class, multi-type, macro): 0.0152937900297577  
Information Type F1 (positive class, multi-type, macro): 0.01867224485069777  
Information Type Accuracy (overall, multi-type, macro): 0.8805633802816901  
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): 0.9719545342228811  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1833591850379885  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.02012340793389171  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.02456874322460233  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8517030158792088

sandiegoSynagogueShooting2019

Information Type Precision (positive class, multi-type, macro): 0.0  
Information Type Recall (positive class, multi-type, macro): 0.0  
Information Type F1 (positive class, multi-type, macro): 0.0  
Information Type Accuracy (overall, multi-type, macro): 0.8088365243004416

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): 0.998772704958272  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.0  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.0  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7488566777769164

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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	1.00	1.00	9223
Request-GoodsServices	0.02	0.03	0.02	38
micro avg	0.99	0.99	0.99	9261
macro avg	0.51	0.51	0.51	9261
weighted avg	0.99	0.99	0.99	9261

Request-SearchAndRescue	precision	recall	f1-score	support
Other Classes	1.00	0.99	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	0.99	9261

Request-InformationWanted	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	9228
Request-InformationWanted	0.00	0.00	0.00	33
micro avg	1.00	1.00	1.00	9261
macro avg	0.50	0.50	0.50	9261
weighted avg	0.99	1.00	0.99	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	1.00	1.00	1.00	9261
macro avg	0.50	0.50	0.50	9261
weighted avg	0.99	1.00	1.00	9261

CallToAction-Donations	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	9155
CallToAction-Donations	0.29	0.02	0.04	106
micro avg	0.99	0.99	0.99	9261
macro avg	0.64	0.51	0.51	9261
weighted avg	0.98	0.99	0.98	9261

CallToAction-MovePeople	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	9158
CallToAction-MovePeople	0.26	0.11	0.15	103
micro avg	0.99	0.99	0.99	9261
macro avg	0.63	0.55	0.57	9261
weighted avg	0.98	0.99	0.98	9261

Report-FirstPartyObservation	precision	recall	f1-score	support
Other Classes	0.97	0.99	0.98	8942
Report-FirstPartyObservation	0.02	0.00	0.01	319
micro avg	0.96	0.96	0.96	9261
macro avg	0.49	0.50	0.49	9261
weighted avg	0.93	0.96	0.95	9261

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.84	0.99	0.91	7785	
Report-ThirdPartyObservation	0.11	0.00	0.01	1476	
micro avg	0.84	0.84	0.84	9261	
macro avg	0.48	0.50	0.46	9261	
weighted avg	0.72	0.84	0.77	9261	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.88	0.99	0.93	8123	
Report-Weather	0.44	0.05	0.10	1138	
micro avg	0.88	0.88	0.88	9261	
macro avg	0.66	0.52	0.51	9261	
weighted avg	0.83	0.88	0.83	9261	

Report-Location					
	precision	recall	f1-score	support	
Other Classes	0.47	1.00	0.64	4352	
Report-Location	0.00	0.00	0.00	4909	
micro avg	0.47	0.47	0.47	9261	
macro avg	0.23	0.50	0.32	9261	
weighted avg	0.22	0.47	0.30	9261	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.93	0.99	0.96	8621	
Report-EmergingThreats	0.13	0.01	0.03	640	
micro avg	0.93	0.93	0.93	9261	
macro avg	0.53	0.50	0.49	9261	
weighted avg	0.88	0.93	0.90	9261	

Report-NewSubEvent					
	precision	recall	f1-score	support	
Other Classes	0.98	1.00	0.99	9051	
Report-NewSubEvent	0.09	0.01	0.02	210	
micro avg	0.97	0.97	0.97	9261	
macro avg	0.53	0.51	0.51	9261	
weighted avg	0.96	0.97	0.97	9261	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.62	0.99	0.76	5719	
Report-MultimediaShare	0.65	0.03	0.06	3542	
micro avg	0.62	0.62	0.62	9261	
macro avg	0.64	0.51	0.41	9261	
weighted avg	0.63	0.62	0.49	9261	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.96	1.00	0.98	8917	
Report-ServiceAvailable	0.00	0.00	0.00	344	
micro avg	0.96	0.96	0.96	9261	
macro avg	0.48	0.50	0.49	9261	
weighted avg	0.93	0.96	0.94	9261	

Report-Factoid					
	precision	recall	f1-score	support	

Other Classes	0.65	1.00	0.79	6019
Report-Factoid	0.33	0.00	0.00	3242
micro avg	0.65	0.65	0.65	9261
macro avg	0.49	0.50	0.39	9261
weighted avg	0.54	0.65	0.51	9261

Report-Official	precision	recall	f1-score	support
Other Classes	0.92	1.00	0.96	8486
Report-Official	0.33	0.00	0.00	775
micro avg	0.92	0.92	0.92	9261
macro avg	0.62	0.50	0.48	9261
weighted avg	0.87	0.92	0.88	9261

Report-News	precision	recall	f1-score	support
Other Classes	0.69	1.00	0.82	6421
Report-News	0.50	0.00	0.00	2840
micro avg	0.69	0.69	0.69	9261
macro avg	0.60	0.50	0.41	9261
weighted avg	0.63	0.69	0.57	9261

Report-CleanUp	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	9202
Report-CleanUp	0.00	0.00	0.00	59
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

Report-Hashtags	precision	recall	f1-score	support
Other Classes	0.73	1.00	0.84	6758
Report-Hashtags	0.00	0.00	0.00	2503
micro avg	0.73	0.73	0.73	9261
macro avg	0.36	0.50	0.42	9261
weighted avg	0.53	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	0.97	1.00	0.99	9015
Other-ContextualInformation	0.00	0.00	0.00	246
micro avg	0.97	0.97	0.97	9261
macro avg	0.49	0.50	0.49	9261
weighted avg	0.95	0.97	0.96	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	0.97	0.94	8481
Other-Sentiment	0.24	0.12	0.16	780
micro avg	0.90	0.90	0.90	9261
macro avg	0.58	0.54	0.55	9261
weighted avg	0.87	0.90	0.88	9261

Other-Discussion

	precision	recall	f1-score	support
Other Classes	0.95	0.98	0.96	8805
Other-Discussion	0.15	0.08	0.10	456
micro avg	0.93	0.93	0.93	9261
macro avg	0.55	0.53	0.53	9261
weighted avg	0.91	0.93	0.92	9261

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.67	1.00	0.80	6224
Other-Irrelevant	0.00	0.00	0.00	3037
micro avg	0.67	0.67	0.67	9261
macro avg	0.34	0.50	0.40	9261
weighted avg	0.45	0.67	0.54	9261