

TREC-IS 2019-B Notebook Evaluator v2.3
Run: nyu.fast.multi (nyu.fast.multi)

EVALUATOR: Alertng Performance
Overall performance

> High Importance Alert Worth: -0.9286697247706426
> Low Importance Alert Worth: -0.007059470662484481
> Accumulated Alert Worth: -0.4678645977165635

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.2884815898367028
> Information Type Recall (positive class, multi-type, macro): 0.2134957038143101
> Information Type F1 (positive class, multi-type, macro): 0.22566188878820106
> Information Type Accuracy (overall, multi-type, macro): 0.8807731346506855
> High Importance Information Type Precision (positive class, multi-type, macro): 0.15335212454293592
> High Importance Information Type Recall (positive class, multi-type, macro): 0.07478109379920535
> High Importance Information Type F1 (positive class, multi-type, macro): 0.08543893689221377
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9647086347766621
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.3311540525610502
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.2573003175032906
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.26994282096588124
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8542671872424825

EVALUATOR: Information Priority Level
Overall Performance

> Priority Estimation Error (mean squared error, macro): 0.11854871540964051
> Priority Estimation Error High Importance (mean squared error, macro): 0.21528599071037266
> Priority Estimation Error Low Importance (mean squared error, macro): 0.08800010215677768

LATEX

nyu.fast.multi & -0.9287 & -0.4679 & 0.0854 & 0.1253 & 0.8808 & 0.2153 & 0.1185 \\

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

albertaWildfires2019

Information Type Precision (positive class, multi-type, macro): 0.2982599955405459
Information Type Recall (positive class, multi-type, macro): 0.25300818196255626
Information Type F1 (positive class, multi-type, macro): 0.253542225938276
Information Type Accuracy (overall, multi-type, macro): 0.8915
High Importance Information Type Precision (positive class, multi-type, macro): 0.14518869198672155
High Importance Information Type Recall (positive class, multi-type, macro): 0.11976398824731732
High Importance Information Type F1 (positive class, multi-type, macro): 0.11280543172951003
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9568333333333334
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3465983019259641
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2950852957673686
Low Importance Information Type F1 (positive class, multi-type, macro): 0.29798542410946527
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8708684210526316

cycloneKenneth2019

Information Type Precision (positive class, multi-type, macro): 0.24305741267545894
Information Type Recall (positive class, multi-type, macro): 0.188935800200515
Information Type F1 (positive class, multi-type, macro): 0.18832234345940108
Information Type Accuracy (overall, multi-type, macro): 0.8605702851425713
High Importance Information Type Precision (positive class, multi-type, macro): 0.09693668365255081
High Importance Information Type Recall (positive class, multi-type, macro): 0.05417914878687286
High Importance Information Type F1 (positive class, multi-type, macro): 0.06455956511450407
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9410538602634652
Low Importance Information Type Precision (positive class, multi-type, macro): 0.28920080078795624
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2314905322258757
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2274053260946317
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8351544193149207

philippinesEarthquake2019

Information Type Precision (positive class, multi-type, macro): 0.19392150778043454
Information Type Recall (positive class, multi-type, macro): 0.2135046422064722
Information Type F1 (positive class, multi-type, macro): 0.17335912522350022
Information Type Accuracy (overall, multi-type, macro): 0.890987468671679
High Importance Information Type Precision (positive class, multi-type, macro): 0.050694444444444445
High Importance Information Type Recall (positive class, multi-type, macro): 0.04493464052287582
High Importance Information Type F1 (positive class, multi-type, macro): 0.03541784568949255
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9636591478696742
Low Importance Information Type Precision (positive class, multi-type, macro): 0.23915110672864195
Low Importance Information Type Recall (positive class, multi-type, macro): 0.26673727431708155
Low Importance Information Type F1 (positive class, multi-type, macro): 0.21691952928687108
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8680385173459967

coloradoStemShooting2019

Information Type Precision (positive class, multi-type, macro): 0.1765067250607172
Information Type Recall (positive class, multi-type, macro): 0.13376162557551755
Information Type F1 (positive class, multi-type, macro): 0.110183133604108
Information Type Accuracy (overall, multi-type, macro): 0.8978531073446328
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): 0.9986548291633038
Low Importance Information Type Precision (positive class, multi-type, macro): 0.23224569086936475
Low Importance Information Type Recall (positive class, multi-type, macro): 0.17600213891515468
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14497780737382632
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8660209846650526

southAfricaFloods2019

Information Type Precision (positive class, multi-type, macro): 0.2724264512386746
Information Type Recall (positive class, multi-type, macro): 0.1971074493775578
Information Type F1 (positive class, multi-type, macro): 0.19536578503521046
Information Type Accuracy (overall, multi-type, macro): 0.8864343958487768
High Importance Information Type Precision (positive class, multi-type, macro): 0.12418300653594772
High Importance Information Type Recall (positive class, multi-type, macro): 0.02286082266763262
High Importance Information Type F1 (positive class, multi-type, macro): 0.02695381281321956
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9663948603904126
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3192401706184831
Low Importance Information Type Recall (positive class, multi-type, macro): 0.25213269991753423
Low Importance Information Type F1 (positive class, multi-type, macro): 0.24854851310531287
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8611837228356286

sandiegoSynagogueShooting2019

Information Type Precision (positive class, multi-type, macro): 0.2871439420218098
Information Type Recall (positive class, multi-type, macro): 0.09760722371412617
Information Type F1 (positive class, multi-type, macro): 0.12530705316739613
Information Type Accuracy (overall, multi-type, macro): 0.8362297496318115

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): 0.9953362788414335
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3778209763444866
Low Importance Information Type Recall (positive class, multi-type, macro): 0.12843055751858706
Low Importance Information Type F1 (positive class, multi-type, macro): 0.16487770153604756
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7859855825129836

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	9223
Request-GoodsServices	0.00	0.00	0.00	38
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

Request-SearchAndRescue

	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	9253
Request-SearchAndRescue	0.00	0.00	0.00	8
micro avg	1.00	1.00	1.00	9261
macro avg	0.50	0.50	0.50	9261
weighted avg	1.00	1.00	1.00	9261

Request-InformationWanted

	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	9228
Request-InformationWanted	0.09	0.09	0.09	33
micro avg	0.99	0.99	0.99	9261
macro avg	0.54	0.54	0.54	9261
weighted avg	0.99	0.99	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	0.99	0.99	9155
CallToAction-Donations	0.24	0.20	0.22	106
micro avg	0.98	0.98	0.98	9261
macro avg	0.61	0.60	0.60	9261
weighted avg	0.98	0.98	0.98	9261

CallToAction-MovePeople

	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	9158
CallToAction-MovePeople	0.27	0.06	0.10	103
micro avg	0.99	0.99	0.99	9261
macro avg	0.63	0.53	0.54	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	0.15	0.04	0.06	319
micro avg	0.96	0.96	0.96	9261
macro avg	0.56	0.52	0.52	9261
weighted avg	0.94	0.96	0.95	9261

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.84	0.91	0.87	7785	
Report-ThirdPartyObservation	0.15	0.09	0.11	1476	
micro avg	0.78	0.78	0.78	9261	
macro avg	0.50	0.50	0.49	9261	
weighted avg	0.73	0.78	0.75	9261	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.89	0.97	0.93	8123	
Report-Weather	0.48	0.17	0.25	1138	
micro avg	0.88	0.88	0.88	9261	
macro avg	0.69	0.57	0.59	9261	
weighted avg	0.84	0.88	0.85	9261	

Report-Location					
	precision	recall	f1-score	support	
Other Classes	0.52	0.83	0.64	4351	
Report-Location	0.68	0.32	0.43	4910	
micro avg	0.56	0.56	0.56	9261	
macro avg	0.60	0.57	0.53	9261	
weighted avg	0.60	0.56	0.53	9261	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.94	0.92	0.93	8621	
Report-EmergingThreats	0.21	0.28	0.24	640	
micro avg	0.88	0.88	0.88	9261	
macro avg	0.58	0.60	0.58	9261	
weighted avg	0.89	0.88	0.88	9261	

Report-NewSubEvent					
	precision	recall	f1-score	support	
Other Classes	0.98	0.99	0.98	9051	
Report-NewSubEvent	0.02	0.01	0.01	210	
micro avg	0.97	0.97	0.97	9261	
macro avg	0.50	0.50	0.50	9261	
weighted avg	0.96	0.97	0.96	9261	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.77	0.74	0.75	5719	
Report-MultimediaShare	0.60	0.64	0.62	3542	
micro avg	0.70	0.70	0.70	9261	
macro avg	0.69	0.69	0.69	9261	
weighted avg	0.71	0.70	0.70	9261	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.97	0.99	0.98	8916	
Report-ServiceAvailable	0.42	0.10	0.17	345	
micro avg	0.96	0.96	0.96	9261	
macro avg	0.69	0.55	0.57	9261	
weighted avg	0.95	0.96	0.95	9261	

Report-Factoid					
	precision	recall	f1-score	support	

Other Classes	0.75	0.89	0.81	6019
Report-Factoid	0.68	0.45	0.54	3242
micro avg	0.73	0.73	0.73	9261
macro avg	0.72	0.67	0.68	9261
weighted avg	0.73	0.73	0.72	9261

Report-Official	precision	recall	f1-score	support
Other Classes	0.93	0.95	0.94	8486
Report-Official	0.31	0.22	0.26	775
micro avg	0.89	0.89	0.89	9261
macro avg	0.62	0.59	0.60	9261
weighted avg	0.88	0.89	0.89	9261

Report-News	precision	recall	f1-score	support
Other Classes	0.82	0.72	0.77	6421
Report-News	0.51	0.64	0.56	2840
micro avg	0.70	0.70	0.70	9261
macro avg	0.66	0.68	0.67	9261
weighted avg	0.72	0.70	0.71	9261

Report-CleanUp	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	9201
Report-CleanUp	0.08	0.02	0.03	60
micro avg	0.99	0.99	0.99	9261
macro avg	0.54	0.51	0.51	9261
weighted avg	0.99	0.99	0.99	9261

Report-Hashtags	precision	recall	f1-score	support
Other Classes	0.90	0.83	0.87	6757
Report-Hashtags	0.63	0.76	0.69	2504
micro avg	0.81	0.81	0.81	9261
macro avg	0.77	0.80	0.78	9261
weighted avg	0.83	0.81	0.82	9261

Report-OriginalEvent	precision	recall	f1-score	support
Other Classes	0.90	0.98	0.94	8321
Report-OriginalEvent	0.36	0.08	0.13	940
micro avg	0.89	0.89	0.89	9261
macro avg	0.63	0.53	0.54	9261
weighted avg	0.85	0.89	0.86	9261

Other-ContextualInformation	precision	recall	f1-score	support
Other Classes	0.97	0.99	0.98	9014
Other-ContextualInformation	0.07	0.04	0.05	247
micro avg	0.96	0.96	0.96	9261
macro avg	0.52	0.51	0.51	9261
weighted avg	0.95	0.96	0.96	9261

Other-Advice	precision	recall	f1-score	support
Other Classes	0.98	0.97	0.97	8946
Other-Advice	0.25	0.30	0.27	315
micro avg	0.95	0.95	0.95	9261
macro avg	0.61	0.63	0.62	9261

weighted avg	0.95	0.95	0.95	9261
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Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.95	0.87	0.91	8481
Other-Sentiment	0.25	0.47	0.33	780
micro avg	0.84	0.84	0.84	9261
macro avg	0.60	0.67	0.62	9261
weighted avg	0.89	0.84	0.86	9261

Other-Discussion

	precision	recall	f1-score	support
Other Classes	0.95	0.95	0.95	8805
Other-Discussion	0.13	0.13	0.13	456
micro avg	0.91	0.91	0.91	9261
macro avg	0.54	0.54	0.54	9261
weighted avg	0.91	0.91	0.91	9261

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.72	0.93	0.81	6224
Other-Irrelevant	0.64	0.25	0.36	3037
micro avg	0.71	0.71	0.71	9261
macro avg	0.68	0.59	0.58	9261
weighted avg	0.69	0.71	0.66	9261