

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

EVALUATOR: Alertng Performance
Overall performance

> High Importance Alert Worth: -0.5559633027522977
> Low Importance Alert Worth: -0.09651326469244395
> Accumulated Alert Worth: -0.3262382837223708

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.21379518173737547
> Information Type Recall (positive class, multi-type, macro): 0.42147696370560844
> Information Type F1 (positive class, multi-type, macro): 0.24377576405588353
> Information Type Accuracy (overall, multi-type, macro): 0.7997408487204409
> High Importance Information Type Precision (positive class, multi-type, macro): 0.07390599684906202
> High Importance Information Type Recall (positive class, multi-type, macro): 0.2816528971783382
> High Importance Information Type F1 (positive class, multi-type, macro): 0.11350452538181484
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9053377964942592
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.2579707138073692
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.4656319320826411
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.2849140499529578
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7663944441602873

EVALUATOR: Information Priority Level
Overall Performance

> Priority Estimation Error (mean squared error, macro): 0.11035933988492057
> Priority Estimation Error High Importance (mean squared error, macro): 0.18363059462513145
> Priority Estimation Error Low Importance (mean squared error, macro): 0.08722104891432764

LATEX

nyu.base.multi & -0.5560 & -0.3262 & 0.1135 & 0.1766 & 0.7997 & 0.1836 & 0.1104 \\

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

albertaWildfires2019

Information Type Precision (positive class, multi-type, macro): 0.22150172843138013
Information Type Recall (positive class, multi-type, macro): 0.442741601362757
Information Type F1 (positive class, multi-type, macro): 0.256710805835932
Information Type Accuracy (overall, multi-type, macro): 0.8067799999999999
High Importance Information Type Precision (positive class, multi-type, macro): 0.08733269046916207
High Importance Information Type Recall (positive class, multi-type, macro): 0.4055498779310736
High Importance Information Type F1 (positive class, multi-type, macro): 0.13646487204846175
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8882500000000001
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2638708983141858
Low Importance Information Type Recall (positive class, multi-type, macro): 0.45448635613065685
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2946832059793436
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7810526315789472

cycloneKenneth2019

Information Type Precision (positive class, multi-type, macro): 0.2241897661235251
Information Type Recall (positive class, multi-type, macro): 0.3701396105687924
Information Type F1 (positive class, multi-type, macro): 0.23786783047681542
Information Type Accuracy (overall, multi-type, macro): 0.7740270135067534
High Importance Information Type Precision (positive class, multi-type, macro): 0.10647898318638781
High Importance Information Type Recall (positive class, multi-type, macro): 0.2266210767360948
High Importance Information Type F1 (positive class, multi-type, macro): 0.1415364800339313
High Importance Information Type Accuracy (overall, multi-type, macro): 0.877772219443055
Low Importance Information Type Precision (positive class, multi-type, macro): 0.26136159231420003
Low Importance Information Type Recall (positive class, multi-type, macro): 0.41546125283174967
Low Importance Information Type F1 (positive class, multi-type, macro): 0.26828825693246305
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7412653695268688

philippinesEarthquake2019

Information Type Precision (positive class, multi-type, macro): 0.14390840712187208
Information Type Recall (positive class, multi-type, macro): 0.37360997247591515
Information Type F1 (positive class, multi-type, macro): 0.1756433509894627
Information Type Accuracy (overall, multi-type, macro): 0.8162807017543856
High Importance Information Type Precision (positive class, multi-type, macro): 0.04070676497520438
High Importance Information Type Recall (positive class, multi-type, macro): 0.1883838383838384
High Importance Information Type F1 (positive class, multi-type, macro): 0.06229126168059771
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9126148705096072
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1764983993787145
Low Importance Information Type Recall (positive class, multi-type, macro): 0.432102435873413
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2114387476133148
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7858593853053686

coloradoStemShooting2019

Information Type Precision (positive class, multi-type, macro): 0.12147792499214939
Information Type Recall (positive class, multi-type, macro): 0.24444881314367353
Information Type F1 (positive class, multi-type, macro): 0.13337973503686765
Information Type Accuracy (overall, multi-type, macro): 0.8045197740112994
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): 0.9478073715361851
Low Importance Information Type Precision (positive class, multi-type, macro): 0.15983937498967024
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3216431751890441
Low Importance Information Type F1 (positive class, multi-type, macro): 0.17549965136429954
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7592710590034408

southAfricaFloods2019

Information Type Precision (positive class, multi-type, macro): 0.17648912914385095
Information Type Recall (positive class, multi-type, macro): 0.3263313941426893
Information Type F1 (positive class, multi-type, macro): 0.1712736179509678
Information Type Accuracy (overall, multi-type, macro): 0.7952260934025204
High Importance Information Type Precision (positive class, multi-type, macro): 0.043228058786917545
High Importance Information Type Recall (positive class, multi-type, macro): 0.11922899607033872
High Importance Information Type F1 (positive class, multi-type, macro): 0.057602666332524956
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9021497405485546
Low Importance Information Type Precision (positive class, multi-type, macro): 0.21857157241446154
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3917321514286946
Low Importance Information Type F1 (positive class, multi-type, macro): 0.20716970793573924
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.761460731145878

sandiegoSynagogueShooting2019

Information Type Precision (positive class, multi-type, macro): 0.22891578489193556
Information Type Recall (positive class, multi-type, macro): 0.24556321334491782
Information Type F1 (positive class, multi-type, macro): 0.1765807663834284
Information Type Accuracy (overall, multi-type, macro): 0.8063622974963183

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): 0.9442808051055475
Low Importance Information Type Precision (positive class, multi-type, macro): 0.30120498012096786
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3231094912433129
Low Importance Information Type F1 (positive class, multi-type, macro): 0.23234311366240581
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7628090845670878

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

Request-GoodsServices	precision	recall	f1-score	support
Other Classes	1.00	0.97	0.98	9223
Request-GoodsServices	0.02	0.18	0.04	38
micro avg	0.96	0.96	0.96	9261
macro avg	0.51	0.58	0.51	9261
weighted avg	0.99	0.96	0.98	9261

Request-SearchAndRescue	precision	recall	f1-score	support
Other Classes	1.00	0.98	0.99	9252
Request-SearchAndRescue	0.00	0.11	0.01	9
micro avg	0.98	0.98	0.98	9261
macro avg	0.50	0.54	0.50	9261
weighted avg	1.00	0.98	0.99	9261

Request-InformationWanted	precision	recall	f1-score	support
Other Classes	1.00	0.95	0.97	9228
Request-InformationWanted	0.03	0.39	0.05	33
micro avg	0.94	0.94	0.94	9261
macro avg	0.51	0.67	0.51	9261
weighted avg	0.99	0.94	0.97	9261

CallToAction-Volunteer	precision	recall	f1-score	support
Other Classes	1.00	0.95	0.98	9237
CallToAction-Volunteer	0.03	0.50	0.05	24
micro avg	0.95	0.95	0.95	9261
macro avg	0.51	0.73	0.51	9261
weighted avg	1.00	0.95	0.97	9261

CallToAction-Donations	precision	recall	f1-score	support
Other Classes	0.99	0.96	0.97	9155
CallToAction-Donations	0.10	0.42	0.16	106
micro avg	0.95	0.95	0.95	9261
macro avg	0.55	0.69	0.57	9261
weighted avg	0.98	0.95	0.96	9261

CallToAction-MovePeople	precision	recall	f1-score	support
Other Classes	0.99	0.95	0.97	9158
CallToAction-MovePeople	0.08	0.38	0.13	103
micro avg	0.94	0.94	0.94	9261
macro avg	0.54	0.66	0.55	9261
weighted avg	0.98	0.94	0.96	9261

Report-FirstPartyObservation	precision	recall	f1-score	support
Other Classes	0.97	0.73	0.84	8942
Report-FirstPartyObservation	0.05	0.42	0.09	319
micro avg	0.72	0.72	0.72	9261
macro avg	0.51	0.57	0.46	9261
weighted avg	0.94	0.72	0.81	9261

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.86	0.65	0.74	7785	
Report-ThirdPartyObservation	0.19	0.43	0.26	1476	
micro avg	0.62	0.62	0.62	9261	
macro avg	0.52	0.54	0.50	9261	
weighted avg	0.75	0.62	0.67	9261	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.93	0.87	0.90	8123	
Report-Weather	0.35	0.51	0.42	1138	
micro avg	0.83	0.83	0.83	9261	
macro avg	0.64	0.69	0.66	9261	
weighted avg	0.86	0.83	0.84	9261	

Report-Location					
	precision	recall	f1-score	support	
Other Classes	0.51	0.88	0.65	4351	
Report-Location	0.70	0.26	0.38	4910	
micro avg	0.55	0.55	0.55	9261	
macro avg	0.61	0.57	0.51	9261	
weighted avg	0.61	0.55	0.51	9261	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.95	0.79	0.87	8621	
Report-EmergingThreats	0.14	0.47	0.22	640	
micro avg	0.77	0.77	0.77	9261	
macro avg	0.55	0.63	0.54	9261	
weighted avg	0.90	0.77	0.82	9261	

Report-NewSubEvent					
	precision	recall	f1-score	support	
Other Classes	0.98	0.89	0.93	9051	
Report-NewSubEvent	0.04	0.18	0.06	210	
micro avg	0.87	0.87	0.87	9261	
macro avg	0.51	0.53	0.50	9261	
weighted avg	0.96	0.87	0.91	9261	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.71	0.71	0.71	5719	
Report-MultimediaShare	0.53	0.54	0.54	3542	
micro avg	0.64	0.64	0.64	9261	
macro avg	0.62	0.62	0.62	9261	
weighted avg	0.64	0.64	0.64	9261	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.97	0.92	0.95	8916	
Report-ServiceAvailable	0.16	0.37	0.22	345	
micro avg	0.90	0.90	0.90	9261	
macro avg	0.57	0.65	0.58	9261	
weighted avg	0.94	0.90	0.92	9261	

Report-Factoid					
	precision	recall	f1-score	support	

Other Classes	0.73	0.73	0.73	6019
Report-Factoid	0.50	0.51	0.50	3242
micro avg	0.65	0.65	0.65	9261
macro avg	0.62	0.62	0.62	9261
weighted avg	0.65	0.65	0.65	9261

Report-Official	precision	recall	f1-score	support
Other Classes	0.94	0.86	0.90	8486
Report-Official	0.20	0.36	0.25	775
micro avg	0.82	0.82	0.82	9261
macro avg	0.57	0.61	0.58	9261
weighted avg	0.87	0.82	0.85	9261

Report-News	precision	recall	f1-score	support
Other Classes	0.86	0.62	0.72	6421
Report-News	0.47	0.77	0.58	2840
micro avg	0.66	0.66	0.66	9261
macro avg	0.66	0.69	0.65	9261
weighted avg	0.74	0.66	0.68	9261

Report-CleanUp	precision	recall	f1-score	support
Other Classes	1.00	0.93	0.96	9201
Report-CleanUp	0.03	0.35	0.05	60
micro avg	0.92	0.92	0.92	9261
macro avg	0.51	0.64	0.51	9261
weighted avg	0.99	0.92	0.95	9261

Report-Hashtags	precision	recall	f1-score	support
Other Classes	0.83	0.82	0.83	6757
Report-Hashtags	0.53	0.56	0.55	2504
micro avg	0.75	0.75	0.75	9261
macro avg	0.68	0.69	0.69	9261
weighted avg	0.75	0.75	0.75	9261

Report-OriginalEvent	precision	recall	f1-score	support
Other Classes	0.96	0.77	0.86	8321
Report-OriginalEvent	0.26	0.69	0.37	940
micro avg	0.76	0.76	0.76	9261
macro avg	0.61	0.73	0.61	9261
weighted avg	0.89	0.76	0.81	9261

Other-ContextualInformation	precision	recall	f1-score	support
Other Classes	0.97	0.78	0.86	9014
Other-ContextualInformation	0.03	0.23	0.05	247
micro avg	0.76	0.76	0.76	9261
macro avg	0.50	0.51	0.46	9261
weighted avg	0.95	0.76	0.84	9261

Other-Advice	precision	recall	f1-score	support
Other Classes	0.98	0.87	0.92	8946
Other-Advice	0.12	0.52	0.20	315
micro avg	0.86	0.86	0.86	9261
macro avg	0.55	0.70	0.56	9261

weighted avg	0.95	0.86	0.90	9261
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Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.96	0.80	0.87	8481
Other-Sentiment	0.22	0.63	0.33	780
micro avg	0.79	0.79	0.79	9261
macro avg	0.59	0.72	0.60	9261
weighted avg	0.90	0.79	0.83	9261

Other-Discussion

	precision	recall	f1-score	support
Other Classes	0.95	0.73	0.83	8805
Other-Discussion	0.06	0.32	0.10	456
micro avg	0.71	0.71	0.71	9261
macro avg	0.51	0.52	0.46	9261
weighted avg	0.91	0.71	0.79	9261

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.74	0.78	0.76	6224
Other-Irrelevant	0.50	0.44	0.47	3037
micro avg	0.67	0.67	0.67	9261
macro avg	0.62	0.61	0.62	9261
weighted avg	0.66	0.67	0.67	9261