

TREC-IS 2019-B Notebook Evaluator v2.3
Run: nyu-smapp_run_baseline (nyu-smapp_run_baseline.csv)

EVALUATOR: Alertng Performance
Overall performance

> High Importance Alert Worth: -0.12132564841498603
> Low Importance Alert Worth: -0.27320666214822403
> Accumulated Alert Worth: -0.19726615528160502

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.1985353608845326
> Information Type Recall (positive class, multi-type, macro): 0.12093826763427766
> Information Type F1 (positive class, multi-type, macro): 0.12871897623926307
> Information Type Accuracy (overall, multi-type, macro): 0.8929842371845252
> High Importance Information Type Precision (positive class, multi-type, macro): 0.06652930769729616
> High Importance Information Type Recall (positive class, multi-type, macro): 0.07689274302603903
> High Importance Information Type F1 (positive class, multi-type, macro): 0.05669923220603864
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9721421709894332
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.24253737861361138
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.13562010917035716
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.15272555758367118
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8665982592495561

EVALUATOR: Information Priority Level
Overall Performance

> Priority Estimation Error (mean squared error, macro): 0.10357841520057343
> Priority Estimation Error High Importance (mean squared error, macro): 0.12227715877031992
> Priority Estimation Error Low Importance (mean squared error, macro): 0.0973455006773246

LATEX

nyu-smapp_run_baseline & -0.1213 & -0.1973 & 0.0567 & 0.1326 & 0.8930 & 0.1223 & 0.1036 \\\

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

floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.0520434227330779
Information Type Recall (positive class, multi-type, macro): 0.02860137765798143
Information Type F1 (positive class, multi-type, macro): 0.01995732518988333
Information Type Accuracy (overall, multi-type, macro): 0.9209511568123393
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): 0.9695801199657241
Low Importance Information Type Precision (positive class, multi-type, macro): 0.06939123031077053
Low Importance Information Type Recall (positive class, multi-type, macro): 0.03813517021064191
Low Importance Information Type F1 (positive class, multi-type, macro): 0.02660976691984444
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9047415024278779

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.15842245989304812
Information Type Recall (positive class, multi-type, macro): 0.07456900430855072
Information Type F1 (positive class, multi-type, macro): 0.0799737349853449
Information Type Accuracy (overall, multi-type, macro): 0.8891076115485563
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): 0.9698162729658794
Low Importance Information Type Precision (positive class, multi-type, macro): 0.21122994652406418
Low Importance Information Type Recall (positive class, multi-type, macro): 0.09942533907806762
Low Importance Information Type F1 (positive class, multi-type, macro): 0.10663164664712652
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.862204724409449

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.25185822234953253
Information Type Recall (positive class, multi-type, macro): 0.13582644857203727
Information Type F1 (positive class, multi-type, macro): 0.14482546801136478
Information Type Accuracy (overall, multi-type, macro): 0.8966747442110932
High Importance Information Type Precision (positive class, multi-type, macro): 0.10416666666666667
High Importance Information Type Recall (positive class, multi-type, macro): 0.13888888888888887
High Importance Information Type F1 (positive class, multi-type, macro): 0.11363636363636365
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9878836833602586
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3010887409104879
Low Importance Information Type Recall (positive class, multi-type, macro): 0.13480563513308672
Low Importance Information Type F1 (positive class, multi-type, macro): 0.15522183613636514
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8662717644947046

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.20271191624019846
Information Type Recall (positive class, multi-type, macro): 0.13950755896149383
Information Type F1 (positive class, multi-type, macro): 0.12300592730955828
Information Type Accuracy (overall, multi-type, macro): 0.8976590636254502
High Importance Information Type Precision (positive class, multi-type, macro): 0.0865573978781526
High Importance Information Type Recall (positive class, multi-type, macro): 0.18780361182185634
High Importance Information Type F1 (positive class, multi-type, macro): 0.06541305046608807
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9663865546218487
Low Importance Information Type Precision (positive class, multi-type, macro): 0.24143008902754706
Low Importance Information Type Recall (positive class, multi-type, macro): 0.12340887467470633
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14220355292404832
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8747498999599839

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.1078120930048519
Information Type Recall (positive class, multi-type, macro): 0.06253282725561883
Information Type F1 (positive class, multi-type, macro): 0.045687128477906326
Information Type Accuracy (overall, multi-type, macro): 0.9048958333333336
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): 0.9955833333333333
Low Importance Information Type Precision (positive class, multi-type, macro): 0.14374945733980252
Low Importance Information Type Recall (positive class, multi-type, macro): 0.08337710300749178
Low Importance Information Type F1 (positive class, multi-type, macro): 0.060916171303875104
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8746666666666667

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.2286356573544501
Information Type Recall (positive class, multi-type, macro): 0.13228680763506964
Information Type F1 (positive class, multi-type, macro): 0.13261956034428066
Information Type Accuracy (overall, multi-type, macro): 0.8688958333333333

High Importance Information Type Precision (positive class, multi-type, macro): 0.09889615342704589
High Importance Information Type Recall (positive class, multi-type, macro): 0.07224977850555546
High Importance Information Type F1 (positive class, multi-type, macro): 0.058087746193673136
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9516666666666667
Low Importance Information Type Precision (positive class, multi-type, macro): 0.27188215866358484
Low Importance Information Type Recall (positive class, multi-type, macro): 0.15229915067824104
Low Importance Information Type F1 (positive class, multi-type, macro): 0.15746349839448315
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8413055555555556

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

Request-GoodsServices				
	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	7611
Request-GoodsServices	0.04	0.09	0.05	23
micro avg	0.99	0.99	0.99	7634
macro avg	0.52	0.54	0.52	7634
weighted avg	0.99	0.99	0.99	7634
Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7624
Request-SearchAndRescue	0.05	0.20	0.08	10
micro avg	0.99	0.99	0.99	7634
macro avg	0.53	0.60	0.54	7634
weighted avg	1.00	0.99	1.00	7634
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	0.99	0.99	0.99	7563
Request-InformationWanted	0.10	0.15	0.12	71
micro avg	0.98	0.98	0.98	7634
macro avg	0.54	0.57	0.55	7634
weighted avg	0.98	0.98	0.98	7634
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	0.99	0.99	7610
CallToAction-Volunteer	0.03	0.08	0.04	24
micro avg	0.99	0.99	0.99	7634
macro avg	0.51	0.54	0.52	7634
weighted avg	0.99	0.99	0.99	7634
CallToAction-Donations				
	precision	recall	f1-score	support
Other Classes	0.99	0.99	0.99	7556
CallToAction-Donations	0.32	0.28	0.30	78
micro avg	0.99	0.99	0.99	7634
macro avg	0.66	0.64	0.65	7634
weighted avg	0.99	0.99	0.99	7634
CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	0.98	0.98	7526
CallToAction-MovePeople	0.05	0.06	0.06	108
micro avg	0.97	0.97	0.97	7634
macro avg	0.52	0.52	0.52	7634
weighted avg	0.97	0.97	0.97	7634
Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	0.94	0.91	0.93	7150
Report-FirstPartyObservation	0.12	0.18	0.15	484
micro avg	0.87	0.87	0.87	7634
macro avg	0.53	0.55	0.54	7634
weighted avg	0.89	0.87	0.88	7634

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.96	0.98	0.97	7317	
Report-ThirdPartyObservation	0.04	0.02	0.03	317	
micro avg	0.94	0.94	0.94	7634	
macro avg	0.50	0.50	0.50	7634	
weighted avg	0.92	0.94	0.93	7634	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.97	0.97	0.97	7334	
Report-Weather	0.22	0.22	0.22	300	
micro avg	0.94	0.94	0.94	7634	
macro avg	0.59	0.59	0.59	7634	
weighted avg	0.94	0.94	0.94	7634	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.94	0.98	0.96	7168	
Report-EmergingThreats	0.15	0.04	0.07	466	
micro avg	0.93	0.93	0.93	7634	
macro avg	0.55	0.51	0.51	7634	
weighted avg	0.89	0.93	0.91	7634	

Report-NewSubEvent					
	precision	recall	f1-score	support	
Other Classes	0.98	1.00	0.99	7493	
Report-NewSubEvent	0.00	0.00	0.00	141	
micro avg	0.98	0.98	0.98	7634	
macro avg	0.49	0.50	0.50	7634	
weighted avg	0.96	0.98	0.97	7634	

Report-MultimediaShare					
	precision	recall	f1-score	support	
Other Classes	0.81	0.97	0.88	6034	
Report-MultimediaShare	0.51	0.13	0.21	1600	
micro avg	0.79	0.79	0.79	7634	
macro avg	0.66	0.55	0.54	7634	
weighted avg	0.74	0.79	0.74	7634	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.98	0.99	0.99	7484	
Report-ServiceAvailable	0.11	0.07	0.08	150	
micro avg	0.97	0.97	0.97	7634	
macro avg	0.55	0.53	0.53	7634	
weighted avg	0.96	0.97	0.97	7634	

Report-Factoid					
	precision	recall	f1-score	support	
Other Classes	0.88	0.98	0.92	6625	
Report-Factoid	0.41	0.11	0.17	1009	
micro avg	0.86	0.86	0.86	7634	
macro avg	0.64	0.54	0.55	7634	
weighted avg	0.82	0.86	0.82	7634	

Report-Official					
	precision	recall	f1-score	support	

Other Classes	0.98	0.96	0.97	7404
Report-Official	0.15	0.21	0.17	230
micro avg	0.94	0.94	0.94	7634
macro avg	0.56	0.59	0.57	7634
weighted avg	0.95	0.94	0.94	7634

Report-News

	precision	recall	f1-score	support
Other Classes	0.82	0.87	0.84	6158
Report-News	0.25	0.19	0.22	1476
micro avg	0.74	0.74	0.74	7634
macro avg	0.53	0.53	0.53	7634
weighted avg	0.71	0.74	0.72	7634

Report-CleanUp

	precision	recall	f1-score	support
Other Classes	0.99	0.99	0.99	7559
Report-CleanUp	0.08	0.07	0.07	75
micro avg	0.98	0.98	0.98	7634
macro avg	0.53	0.53	0.53	7634
weighted avg	0.98	0.98	0.98	7634

Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.51	0.96	0.67	3789
Report-Hashtags	0.72	0.10	0.18	3845
micro avg	0.53	0.53	0.53	7634
macro avg	0.62	0.53	0.42	7634
weighted avg	0.62	0.53	0.42	7634

Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.88	1.00	0.94	6751
Report-OriginalEvent	0.00	0.00	0.00	883
micro avg	0.88	0.88	0.88	7634
macro avg	0.44	0.50	0.47	7634
weighted avg	0.78	0.88	0.83	7634

Other-ContextualInformation

	precision	recall	f1-score	support
Other Classes	0.96	1.00	0.98	7365
Other-ContextualInformation	0.00	0.00	0.00	269
micro avg	0.96	0.96	0.96	7634
macro avg	0.48	0.50	0.49	7634
weighted avg	0.93	0.96	0.95	7634

Other-Advice

	precision	recall	f1-score	support
Other Classes	0.95	0.95	0.95	7183
Other-Advice	0.18	0.18	0.18	451
micro avg	0.90	0.90	0.90	7634
macro avg	0.57	0.57	0.57	7634
weighted avg	0.90	0.90	0.90	7634

Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.82	0.94	0.88	5844
Other-Sentiment	0.64	0.32	0.42	1790
micro avg	0.80	0.80	0.80	7634
macro avg	0.73	0.63	0.65	7634

weighted avg	0.78	0.80	0.77	7634
Other-Discussion				
	precision	recall	f1-score	support
Other Classes	0.92	0.91	0.92	7064
Other-Discussion	0.05	0.06	0.05	570
micro avg	0.84	0.84	0.84	7634
macro avg	0.49	0.48	0.48	7634
weighted avg	0.86	0.84	0.85	7634
Other-Irrelevant				
	precision	recall	f1-score	support
Other Classes	0.68	0.94	0.79	5013
Other-Irrelevant	0.57	0.14	0.23	2621
micro avg	0.67	0.67	0.67	7634
macro avg	0.62	0.54	0.51	7634
weighted avg	0.64	0.67	0.60	7634