

TREC-IS 2019-B Notebook Evaluator v2.3  
Run: nyu-smapp\_run\_fasttext\_multi (nyu-smapp\_run\_fasttext\_multi.csv)

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EVALUATOR: Alertng Performance  
Overall performance  
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> High Importance Alert Worth: -0.26368876080691694  
> Low Importance Alert Worth: -0.1777567036434504  
> Accumulated Alert Worth: -0.22072273222518368

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EVALUATOR: Information Type Categorization  
Overall performance  
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> Information Type Precision (positive class, multi-type, macro): 0.21231714361566256  
> Information Type Recall (positive class, multi-type, macro): 0.1589060250627654  
> Information Type F1 (positive class, multi-type, macro): 0.16724873895897907  
> Information Type Accuracy (overall, multi-type, macro): 0.8981639158152127  
> High Importance Information Type Precision (positive class, multi-type, macro): 0.06522552872917836  
> High Importance Information Type Recall (positive class, multi-type, macro): 0.021201716738197426  
> High Importance Information Type F1 (positive class, multi-type, macro): 0.03196339534450957  
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9777748668238582  
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.2613476819111573  
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.20480746117095475  
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.21234385349713555  
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8716269321456641

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EVALUATOR: Information Priority Level  
Overall Performance  
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> Priority Estimation Error (mean squared error, macro): 0.09111440771788547  
> Priority Estimation Error High Importance (mean squared error, macro): 0.13061977821816273  
> Priority Estimation Error Low Importance (mean squared error, macro): 0.07794595088445969

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LATEX  
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nyu-smapp\_run\_fasttext\_multi & -0.2637 & -0.2207 & 0.0320 & 0.1582 & 0.8982 & 0.1306 & 0.0911 \\

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EVALUATOR: Information Type Categorization (Multi-type)  
Per Event Performance  
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floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.07811016076581134  
Information Type Recall (positive class, multi-type, macro): 0.1269975274987067  
Information Type F1 (positive class, multi-type, macro): 0.070631437835674  
Information Type Accuracy (overall, multi-type, macro): 0.9338046272493573  
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): 0.9922879177377891  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.10414688102108179  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16933003666494229  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09417525044756532  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9143101970865466

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.12599275930612677  
Information Type Recall (positive class, multi-type, macro): 0.12433210049262493  
Information Type F1 (positive class, multi-type, macro): 0.10471044137192964  
Information Type Accuracy (overall, multi-type, macro): 0.9019028871391076  
High Importance Information Type Precision (positive class, multi-type, macro): 0.020833333333333332  
High Importance Information Type Recall (positive class, multi-type, macro): 0.016666666666666666  
High Importance Information Type F1 (positive class, multi-type, macro): 0.01851851851851852  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9750656167979003  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.16104590129705793  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16022057843461102  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13344108232306667  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8775153105861768

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.1899279171830465  
Information Type Recall (positive class, multi-type, macro): 0.23467338960244052  
Information Type F1 (positive class, multi-type, macro): 0.16392077904768018  
Information Type Accuracy (overall, multi-type, macro): 0.9014539579967688  
High Importance Information Type Precision (positive class, multi-type, macro): 0.0028735632183908046  
High Importance Information Type Recall (positive class, multi-type, macro): 0.055555555555555555  
High Importance Information Type F1 (positive class, multi-type, macro): 0.00546448087431694  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.979536887452881  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.25227936850459837  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.29437933428473545  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.21673954510546792  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8754263148447317

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.21294594551116067  
Information Type Recall (positive class, multi-type, macro): 0.15331088245501623  
Information Type F1 (positive class, multi-type, macro): 0.1563902399298039  
Information Type Accuracy (overall, multi-type, macro): 0.8965252767773776  
High Importance Information Type Precision (positive class, multi-type, macro): 0.10110685398041719  
High Importance Information Type Recall (positive class, multi-type, macro): 0.03005525271628286  
High Importance Information Type F1 (positive class, multi-type, macro): 0.04625706214689266  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9741229825263439  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.25022564268807523  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.19439609236792735  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.19310129919077426  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8706593748610554

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.1335602761807482  
Information Type Recall (positive class, multi-type, macro): 0.11983341356295796  
Information Type F1 (positive class, multi-type, macro): 0.10581082823102828  
Information Type Accuracy (overall, multi-type, macro): 0.9172499999999998  
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): 0.9980833333333333  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1780803682409976  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1597778847506106  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1410811043080377  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8903055555555556

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.2500637316608187  
Information Type Recall (positive class, multi-type, macro): 0.16480563832894107  
Information Type F1 (positive class, multi-type, macro): 0.15821883469574236  
Information Type Accuracy (overall, multi-type, macro): 0.8729374999999998

High Importance Information Type Precision (positive class, multi-type, macro): 0.10978835978835978  
High Importance Information Type Recall (positive class, multi-type, macro): 0.011411433833594664  
High Importance Information Type F1 (positive class, multi-type, macro): 0.019348347651110598  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9588333333333333  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2968221889516383  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.21593703982738988  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.20450899704395292  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8443055555555556

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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	7611
Request-GoodsServices	0.00	0.00	0.00	23
micro avg	1.00	1.00	1.00	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.99	1.00	1.00	7634

## Request-SearchAndRescue

	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7625
Request-SearchAndRescue	0.00	0.00	0.00	9
micro avg	1.00	1.00	1.00	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	1.00	1.00	1.00	7634

## Request-InformationWanted

	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	7564
Request-InformationWanted	0.00	0.00	0.00	70
micro avg	0.99	0.99	0.99	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.98	0.99	0.99	7634

## CallToAction-Volunteer

	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7610
CallToAction-Volunteer	0.09	0.04	0.06	24
micro avg	1.00	1.00	1.00	7634
macro avg	0.54	0.52	0.53	7634
weighted avg	0.99	1.00	0.99	7634

## CallToAction-Donations

	precision	recall	f1-score	support
Other Classes	0.99	0.99	0.99	7556
CallToAction-Donations	0.34	0.46	0.39	78
micro avg	0.99	0.99	0.99	7634
macro avg	0.67	0.73	0.69	7634
weighted avg	0.99	0.99	0.99	7634

## CallToAction-MovePeople

	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	7527
CallToAction-MovePeople	0.00	0.00	0.00	107
micro avg	0.99	0.99	0.99	7634
macro avg	0.49	0.50	0.50	7634
weighted avg	0.97	0.99	0.98	7634

## Report-FirstPartyObservation

	precision	recall	f1-score	support
Other Classes	0.94	0.93	0.94	7150
Report-FirstPartyObservation	0.12	0.14	0.13	484
micro avg	0.88	0.88	0.88	7634
macro avg	0.53	0.54	0.53	7634
weighted avg	0.89	0.88	0.88	7634

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.96	0.94	0.95	7317	
Report-ThirdPartyObservation	0.09	0.15	0.11	317	
micro avg	0.90	0.90	0.90	7634	
macro avg	0.53	0.54	0.53	7634	
weighted avg	0.93	0.90	0.91	7634	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.97	0.99	0.98	7334	
Report-Weather	0.41	0.14	0.21	300	
micro avg	0.96	0.96	0.96	7634	
macro avg	0.69	0.57	0.59	7634	
weighted avg	0.94	0.96	0.95	7634	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.94	0.98	0.96	7168	
Report-EmergingThreats	0.16	0.05	0.07	466	
micro avg	0.93	0.93	0.93	7634	
macro avg	0.55	0.52	0.52	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	0.85	0.93	0.89	6034	
Report-MultimediaShare	0.61	0.38	0.47	1600	
micro avg	0.82	0.82	0.82	7634	
macro avg	0.73	0.66	0.68	7634	
weighted avg	0.80	0.82	0.80	7634	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.98	0.99	0.99	7484	
Report-ServiceAvailable	0.23	0.08	0.12	150	
micro avg	0.98	0.98	0.98	7634	
macro avg	0.61	0.54	0.55	7634	
weighted avg	0.97	0.98	0.97	7634	

Report-Factoid					
	precision	recall	f1-score	support	
Other Classes	0.89	0.97	0.93	6625	
Report-Factoid	0.54	0.22	0.32	1009	
micro avg	0.87	0.87	0.87	7634	
macro avg	0.72	0.60	0.62	7634	
weighted avg	0.85	0.87	0.85	7634	

Report-Official					
	precision	recall	f1-score	support	

Other Classes	0.97	0.98	0.98	7404
Report-Official	0.14	0.08	0.10	230
micro avg	0.96	0.96	0.96	7634
macro avg	0.55	0.53	0.54	7634
weighted avg	0.95	0.96	0.95	7634

#### Report-News

	precision	recall	f1-score	support
Other Classes	0.86	0.79	0.83	6158
Report-News	0.35	0.48	0.41	1476
micro avg	0.73	0.73	0.73	7634
macro avg	0.61	0.64	0.62	7634
weighted avg	0.77	0.73	0.74	7634

#### Report-CleanUp

	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	7560
Report-CleanUp	0.00	0.00	0.00	74
micro avg	0.99	0.99	0.99	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.98	0.99	0.99	7634

#### Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.54	0.93	0.69	3789
Report-Hashtags	0.76	0.24	0.36	3845
micro avg	0.58	0.58	0.58	7634
macro avg	0.65	0.58	0.52	7634
weighted avg	0.65	0.58	0.52	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	0.97	0.96	7183
Other-Advice	0.26	0.19	0.22	451
micro avg	0.92	0.92	0.92	7634
macro avg	0.60	0.58	0.59	7634
weighted avg	0.91	0.92	0.91	7634

#### Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.89	0.76	0.82	5844
Other-Sentiment	0.48	0.71	0.57	1790
micro avg	0.75	0.75	0.75	7634
macro avg	0.69	0.73	0.70	7634

weighted avg	0.80	0.75	0.76	7634
Other-Discussion				
	precision	recall	f1-score	support
Other Classes	0.92	0.95	0.94	7064
Other-Discussion	0.07	0.04	0.05	570
micro avg	0.89	0.89	0.89	7634
macro avg	0.50	0.50	0.49	7634
weighted avg	0.86	0.89	0.87	7634
Other-Irrelevant				
	precision	recall	f1-score	support
Other Classes	0.71	0.73	0.72	5013
Other-Irrelevant	0.45	0.43	0.44	2621
micro avg	0.62	0.62	0.62	7634
macro avg	0.58	0.58	0.58	7634
weighted avg	0.62	0.62	0.62	7634