

TREC-IS 2019-B Notebook Evaluator v2.3  
Run: rf-extra (rf-extra.run)

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EVALUATOR: Alertng Performance  
Overall performance  
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> High Importance Alert Worth: -0.9942363112391931  
> Low Importance Alert Worth: -0.0007196470804405861  
> Accumulated Alert Worth: -0.49747797915981684

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EVALUATOR: Information Type Categorization  
Overall performance  
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> Information Type Precision (positive class, multi-type, macro): 0.2706865621563398  
> Information Type Recall (positive class, multi-type, macro): 0.12655675370371605  
> Information Type F1 (positive class, multi-type, macro): 0.13813931827796855  
> Information Type Accuracy (overall, multi-type, macro): 0.8981857479696097  
> High Importance Information Type Precision (positive class, multi-type, macro): 0.0625  
> High Importance Information Type Recall (positive class, multi-type, macro): 0.002579876013352408  
> High Importance Information Type F1 (positive class, multi-type, macro): 0.004725284115184141  
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9801545716531308  
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.3400820828751197  
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.16788237960050392  
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.18261066299889672  
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8708628067417693

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EVALUATOR: Information Priority Level  
Overall Performance  
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> Priority Estimation Error (mean squared error, macro): 0.07595124204123455  
> Priority Estimation Error High Importance (mean squared error, macro): 0.1885818531863076  
> Priority Estimation Error Low Importance (mean squared error, macro): 0.03840770499287689

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LATEX  
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rf-extra & -0.9942 & -0.4975 & 0.0047 & 0.1489 & 0.8982 & 0.1886 & 0.0760 \\

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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): 0.07107621784345923  
Information Type Recall (positive class, multi-type, macro): 0.0628343747447521  
Information Type F1 (positive class, multi-type, macro): 0.03019613743297954  
Information Type Accuracy (overall, multi-type, macro): 0.9137746358183375  
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): 0.9931448157669237  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.09476829045794563  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.08377916632633614  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.040261516577306054  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8873179091688089

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.15217470760233917  
Information Type Recall (positive class, multi-type, macro): 0.09950565567592497  
Information Type F1 (positive class, multi-type, macro): 0.08538027307414812  
Information Type Accuracy (overall, multi-type, macro): 0.9124015748031497  
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): 0.9829396325459318  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.20289961013645225  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.13267420756789997  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.11384036409886417  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8888888888888888

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.25679447085003765  
Information Type Recall (positive class, multi-type, macro): 0.16988511901595585  
Information Type F1 (positive class, multi-type, macro): 0.14186253246796357  
Information Type Accuracy (overall, multi-type, macro): 0.9124932687129778  
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): 0.9956919763058697  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3423926278000502  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.22651349202127447  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.18915004329061808  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.884760366182014

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.2614764768428873  
Information Type Recall (positive class, multi-type, macro): 0.1270730152892007  
Information Type F1 (positive class, multi-type, macro): 0.12849131380546477  
Information Type Accuracy (overall, multi-type, macro): 0.9008770174736559  
High Importance Information Type Precision (positive class, multi-type, macro): 0.2222222222222222  
High Importance Information Type Recall (positive class, multi-type, macro): 0.002697741684280788  
High Importance Information Type F1 (positive class, multi-type, macro): 0.005265224530591847  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9763238628784846  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2745612283831089  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16853143982417398  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.16956667689708907  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8757280690053798

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.20478168702036348  
Information Type Recall (positive class, multi-type, macro): 0.13234642527301727  
Information Type F1 (positive class, multi-type, macro): 0.09502247721889288  
Information Type Accuracy (overall, multi-type, macro): 0.9017916666666667  
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): 0.9981666666666668  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.27304224936048466  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.176461900364023  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12669663629185718  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8696666666666666

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.241110683715682  
Information Type Recall (positive class, multi-type, macro): 0.13147450532316632  
Information Type F1 (positive class, multi-type, macro): 0.14885186683124702  
Information Type Accuracy (overall, multi-type, macro): 0.8828541666666667

High Importance Information Type Precision (positive class, multi-type, macro): 0.041666666666666664  
High Importance Information Type Recall (positive class, multi-type, macro): 0.002824858757062147  
High Importance Information Type F1 (positive class, multi-type, macro): 0.005291005291005291  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.959416666666666667  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.30759202273202046  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.17435772084520107  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.19670548734466092  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8573333333333333

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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	7612
Request-GoodsServices	0.00	0.00	0.00	22
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	7563
Request-InformationWanted	0.00	0.00	0.00	71
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	0.00	0.00	0.00	24
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
CallToAction-Donations				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	7556
CallToAction-Donations	0.73	0.35	0.47	78
micro avg	0.99	0.99	0.99	7634
macro avg	0.86	0.67	0.73	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	0.94	0.94	7150
Report-FirstPartyObservation	0.09	0.08	0.08	484
micro avg	0.89	0.89	0.89	7634
macro avg	0.51	0.51	0.51	7634
weighted avg	0.88	0.89	0.89	7634

Report-ThirdPartyObservation					
	precision	recall	f1-score	support	
Other Classes	0.96	0.97	0.97	7317	
Report-ThirdPartyObservation	0.11	0.09	0.10	317	
micro avg	0.93	0.93	0.93	7634	
macro avg	0.54	0.53	0.53	7634	
weighted avg	0.93	0.93	0.93	7634	

Report-Weather					
	precision	recall	f1-score	support	
Other Classes	0.96	1.00	0.98	7334	
Report-Weather	0.67	0.05	0.10	300	
micro avg	0.96	0.96	0.96	7634	
macro avg	0.81	0.53	0.54	7634	
weighted avg	0.95	0.96	0.95	7634	

Report-EmergingThreats					
	precision	recall	f1-score	support	
Other Classes	0.94	1.00	0.97	7168	
Report-EmergingThreats	0.25	0.00	0.00	466	
micro avg	0.94	0.94	0.94	7634	
macro avg	0.59	0.50	0.49	7634	
weighted avg	0.90	0.94	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	0.87	0.91	0.89	6034	
Report-MultimediaShare	0.58	0.47	0.52	1600	
micro avg	0.82	0.82	0.82	7634	
macro avg	0.73	0.69	0.70	7634	
weighted avg	0.81	0.82	0.81	7634	

Report-ServiceAvailable					
	precision	recall	f1-score	support	
Other Classes	0.98	1.00	0.99	7484	
Report-ServiceAvailable	0.12	0.01	0.02	150	
micro avg	0.98	0.98	0.98	7634	
macro avg	0.55	0.51	0.51	7634	
weighted avg	0.96	0.98	0.97	7634	

Report-Factoid					
	precision	recall	f1-score	support	
Other Classes	0.89	0.99	0.93	6625	
Report-Factoid	0.63	0.16	0.26	1009	
micro avg	0.88	0.88	0.88	7634	
macro avg	0.76	0.57	0.60	7634	
weighted avg	0.85	0.88	0.84	7634	

Report-Official					
	precision	recall	f1-score	support	

Other Classes	0.97	1.00	0.98	7404
Report-Official	0.14	0.00	0.01	230
micro avg	0.97	0.97	0.97	7634
macro avg	0.56	0.50	0.50	7634
weighted avg	0.95	0.97	0.95	7634

Report-News	precision	recall	f1-score	support
Other Classes	0.88	0.85	0.87	6158
Report-News	0.46	0.53	0.49	1476
micro avg	0.79	0.79	0.79	7634
macro avg	0.67	0.69	0.68	7634
weighted avg	0.80	0.79	0.79	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	0.53	0.90	0.67	3789
Report-Hashtags	0.70	0.22	0.34	3845
micro avg	0.56	0.56	0.56	7634
macro avg	0.61	0.56	0.50	7634
weighted avg	0.61	0.56	0.50	7634

Report-OriginalEvent	precision	recall	f1-score	support
Other Classes	0.88	1.00	0.94	6750
Report-OriginalEvent	0.46	0.01	0.01	884
micro avg	0.88	0.88	0.88	7634
macro avg	0.67	0.50	0.48	7634
weighted avg	0.84	0.88	0.83	7634

Other-ContextualInformation	precision	recall	f1-score	support
Other Classes	0.96	0.84	0.90	7364
Other-ContextualInformation	0.03	0.11	0.04	270
micro avg	0.82	0.82	0.82	7634
macro avg	0.49	0.48	0.47	7634
weighted avg	0.93	0.82	0.87	7634

Other-Advice	precision	recall	f1-score	support
Other Classes	0.95	0.99	0.97	7183
Other-Advice	0.30	0.10	0.15	451
micro avg	0.93	0.93	0.93	7634
macro avg	0.63	0.54	0.56	7634
weighted avg	0.91	0.93	0.92	7634

Other-Sentiment	precision	recall	f1-score	support
Other Classes	0.91	0.73	0.81	5844
Other-Sentiment	0.46	0.75	0.57	1790
micro avg	0.73	0.73	0.73	7634
macro avg	0.68	0.74	0.69	7634

weighted avg	0.80	0.73	0.75	7634
Other-Discussion				
	precision	recall	f1-score	support
Other Classes	0.92	0.94	0.93	7064
Other-Discussion	0.07	0.06	0.06	570
micro avg	0.87	0.87	0.87	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.86	0.87	0.87	7634
Other-Irrelevant				
	precision	recall	f1-score	support
Other Classes	0.67	0.99	0.80	5013
Other-Irrelevant	0.69	0.05	0.09	2621
micro avg	0.67	0.67	0.67	7634
macro avg	0.68	0.52	0.44	7634
weighted avg	0.67	0.67	0.55	7634