

TREC-IS 2019-B Notebook Evaluator v2.3  
Run: UPB-BILSTM.run ([UPB-BILSTM].run)

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EVALUATOR: Alertng Performance  
Overall performance  
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> High Importance Alert Worth: -0.9642651296829972  
> Low Importance Alert Worth: -0.006635232567104878  
> Accumulated Alert Worth: -0.485450181125051

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EVALUATOR: Information Type Categorization  
Overall performance  
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> Information Type Precision (positive class, multi-type, macro): 0.24607594596719726  
> Information Type Recall (positive class, multi-type, macro): 0.2351829594010207  
> Information Type F1 (positive class, multi-type, macro): 0.20415452693562666  
> Information Type Accuracy (overall, multi-type, macro): 0.8698694437167057  
> High Importance Information Type Precision (positive class, multi-type, macro): 0.07000127824114018  
> High Importance Information Type Recall (positive class, multi-type, macro): 0.10072007629947544  
> High Importance Information Type F1 (positive class, multi-type, macro): 0.08141933497536946  
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9685835298227229  
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.3047675018758829  
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.28000392043486916  
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.2450662575890457  
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8369647483480339

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EVALUATOR: Information Priority Level  
Overall Performance  
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> Priority Estimation Error (mean squared error, macro): 0.07570551683574889  
> Priority Estimation Error High Importance (mean squared error, macro): 0.17436627196132018  
> Priority Estimation Error Low Importance (mean squared error, macro): 0.04281859846055845

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LATEX  
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UPB-BILSTM.run & -0.9643 & -0.4855 & 0.0814 & 0.2027 & 0.8699 & 0.1744 & 0.0757 \\  
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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): 0.07329904470784165  
Information Type Recall (positive class, multi-type, macro): 0.12114171533393231  
Information Type F1 (positive class, multi-type, macro): 0.060023993923676446  
Information Type Accuracy (overall, multi-type, macro): 0.9028491859468725  
High Importance Information Type Precision (positive class, multi-type, macro): 0.003787878787878788  
High Importance Information Type Recall (positive class, multi-type, macro): 0.027777777777777776  
High Importance Information Type F1 (positive class, multi-type, macro): 0.006666666666666667  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9665809768637531  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.09646943334782929  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1522630278526505  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.07780976967601304  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8816052556412454

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.12818246063829156  
Information Type Recall (positive class, multi-type, macro): 0.14232048514915277  
Information Type F1 (positive class, multi-type, macro): 0.11118140409124631  
Information Type Accuracy (overall, multi-type, macro): 0.887795275590551  
High Importance Information Type Precision (positive class, multi-type, macro): 0.018518518518518517  
High Importance Information Type Recall (positive class, multi-type, macro): 0.033333333333333333  
High Importance Information Type F1 (positive class, multi-type, macro): 0.023809523809523808  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9619422572178479  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.16473710801154925  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.17864953575442588  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1403053641851538  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8630796150481191

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.22069644800086854  
Information Type Recall (positive class, multi-type, macro): 0.3024744354824952  
Information Type F1 (positive class, multi-type, macro): 0.18737539635553954  
Information Type Accuracy (overall, multi-type, macro): 0.880721593968767  
High Importance Information Type Precision (positive class, multi-type, macro): 0.004219409282700422  
High Importance Information Type Recall (positive class, multi-type, macro): 0.111111111111111111  
High Importance Information Type F1 (positive class, multi-type, macro): 0.008130081300813007  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.970382337102854  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2928554609069246  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3662622102729565  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.24712383470711505  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8508346795907378

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.2512944122386919  
Information Type Recall (positive class, multi-type, macro): 0.2544812862555747  
Information Type F1 (positive class, multi-type, macro): 0.1954944583496654  
Information Type Accuracy (overall, multi-type, macro): 0.8709150326797386  
High Importance Information Type Precision (positive class, multi-type, macro): 0.12365039078237046  
High Importance Information Type Recall (positive class, multi-type, macro): 0.22664738383950755  
High Importance Information Type F1 (positive class, multi-type, macro): 0.13388305369020514  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.967720421501934  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.293842419390799  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.26375925372759706  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.21603159323615218  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8386465697390068

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.12120012097175575  
Information Type Recall (positive class, multi-type, macro): 0.18017696369120006  
Information Type F1 (positive class, multi-type, macro): 0.11051039290051201  
Information Type Accuracy (overall, multi-type, macro): 0.8733125000000003  
High Importance Information Type Precision (positive class, multi-type, macro): 0.007861635220125786  
High Importance Information Type Recall (positive class, multi-type, macro): 0.0462962962962963  
High Importance Information Type F1 (positive class, multi-type, macro): 0.013440860215053765  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9892500000000001  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.15897961622229906  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2248038528228346  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14286690379566475  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8346666666666667

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.2968590079448629  
Information Type Recall (positive class, multi-type, macro): 0.23957581352170784  
Information Type F1 (positive class, multi-type, macro): 0.20266770098549747  
Information Type Accuracy (overall, multi-type, macro): 0.8542083333333332

High Importance Information Type Precision (positive class, multi-type, macro): 0.08682428682428683  
High Importance Information Type Recall (positive class, multi-type, macro): 0.0966217841824502  
High Importance Information Type F1 (positive class, multi-type, macro): 0.08136104790679746  
High Importance Information Type Accuracy (overall, multi-type, macro): 0.94925  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.36687058165172165  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2872271566347937  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.24310325201173077  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8225277777777777

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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	0.99	7634
Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7624
Request-SearchAndRescue	0.16	0.30	0.21	10
micro avg	1.00	1.00	1.00	7634
macro avg	0.58	0.65	0.60	7634
weighted avg	1.00	1.00	1.00	7634
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	7563
Request-InformationWanted	0.33	0.11	0.17	71
micro avg	0.99	0.99	0.99	7634
macro avg	0.66	0.56	0.58	7634
weighted avg	0.99	0.99	0.99	7634
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7610
CallToAction-Volunteer	0.50	0.08	0.14	24
micro avg	1.00	1.00	1.00	7634
macro avg	0.75	0.54	0.57	7634
weighted avg	1.00	1.00	1.00	7634
CallToAction-Donations				
	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	7556
CallToAction-Donations	0.53	0.72	0.61	78
micro avg	0.99	0.99	0.99	7634
macro avg	0.76	0.86	0.80	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	0.95	0.73	0.83	7150
Report-FirstPartyObservation	0.11	0.47	0.17	484
micro avg	0.71	0.71	0.71	7634
macro avg	0.53	0.60	0.50	7634
weighted avg	0.90	0.71	0.78	7634

Report-ThirdPartyObservation	precision	recall	f1-score	support
Other Classes	0.97	0.89	0.92	7317
Report-ThirdPartyObservation	0.10	0.29	0.15	317
micro avg	0.86	0.86	0.86	7634
macro avg	0.53	0.59	0.54	7634
weighted avg	0.93	0.86	0.89	7634

Report-Weather	precision	recall	f1-score	support
Other Classes	0.97	0.99	0.98	7334
Report-Weather	0.45	0.29	0.35	300
micro avg	0.96	0.96	0.96	7634
macro avg	0.71	0.64	0.67	7634
weighted avg	0.95	0.96	0.95	7634

Report-EmergingThreats	precision	recall	f1-score	support
Other Classes	0.95	0.94	0.94	7168
Report-EmergingThreats	0.16	0.19	0.18	466
micro avg	0.89	0.89	0.89	7634
macro avg	0.55	0.56	0.56	7634
weighted avg	0.90	0.89	0.89	7634

Report-NewSubEvent	precision	recall	f1-score	support
Other Classes	0.98	1.00	0.99	7492
Report-NewSubEvent	0.00	0.00	0.00	142
micro avg	0.98	0.98	0.98	7634
macro avg	0.49	0.50	0.49	7634
weighted avg	0.96	0.98	0.97	7634

Report-MultimediaShare	precision	recall	f1-score	support
Other Classes	0.81	0.91	0.86	6034
Report-MultimediaShare	0.36	0.20	0.26	1600
micro avg	0.76	0.76	0.76	7634
macro avg	0.59	0.55	0.56	7634
weighted avg	0.72	0.76	0.73	7634

Report-ServiceAvailable	precision	recall	f1-score	support
Other Classes	0.98	0.98	0.98	7484
Report-ServiceAvailable	0.10	0.11	0.11	150
micro avg	0.96	0.96	0.96	7634
macro avg	0.54	0.55	0.54	7634
weighted avg	0.96	0.96	0.96	7634

Report-Factoid	precision	recall	f1-score	support
Other Classes	0.90	0.91	0.91	6625
Report-Factoid	0.38	0.34	0.36	1009
micro avg	0.84	0.84	0.84	7634
macro avg	0.64	0.63	0.63	7634
weighted avg	0.83	0.84	0.84	7634

Report-Official	precision	recall	f1-score	support
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Other Classes	0.97	0.99	0.98	7404
Report-Official	0.26	0.08	0.12	230
micro avg	0.97	0.97	0.97	7634
macro avg	0.62	0.54	0.55	7634
weighted avg	0.95	0.97	0.96	7634

Report-News				
	precision	recall	f1-score	support
Other Classes	0.90	0.76	0.83	6158
Report-News	0.40	0.64	0.49	1476
micro avg	0.74	0.74	0.74	7634
macro avg	0.65	0.70	0.66	7634
weighted avg	0.80	0.74	0.76	7634

Report-CleanUp				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	7559
Report-CleanUp	0.00	0.00	0.00	75
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	0.51	0.90	0.65	3789
Report-Hashtags	0.57	0.13	0.21	3845
micro avg	0.51	0.51	0.51	7634
macro avg	0.54	0.52	0.43	7634
weighted avg	0.54	0.51	0.43	7634

Report-OriginalEvent				
	precision	recall	f1-score	support
Other Classes	0.89	0.98	0.93	6750
Report-OriginalEvent	0.18	0.03	0.05	884
micro avg	0.87	0.87	0.87	7634
macro avg	0.53	0.51	0.49	7634
weighted avg	0.80	0.87	0.83	7634

Other-ContextualInformation				
	precision	recall	f1-score	support
Other Classes	0.96	0.85	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	0.96	0.92	0.94	7183
Other-Advice	0.21	0.34	0.26	451
micro avg	0.89	0.89	0.89	7634
macro avg	0.59	0.63	0.60	7634
weighted avg	0.91	0.89	0.90	7634

Other-Sentiment				
	precision	recall	f1-score	support
Other Classes	0.90	0.68	0.78	5844
Other-Sentiment	0.43	0.76	0.55	1790
micro avg	0.70	0.70	0.70	7634
macro avg	0.66	0.72	0.66	7634

weighted avg	0.79	0.70	0.72	7634
Other-Discussion				
	precision	recall	f1-score	support
Other Classes	0.92	0.83	0.88	7064
Other-Discussion	0.07	0.16	0.10	570
micro avg	0.78	0.78	0.78	7634
macro avg	0.50	0.50	0.49	7634
weighted avg	0.86	0.78	0.82	7634
Other-Irrelevant				
	precision	recall	f1-score	support
Other Classes	0.70	0.89	0.79	5013
Other-Irrelevant	0.58	0.28	0.38	2621
micro avg	0.68	0.68	0.68	7634
macro avg	0.64	0.59	0.58	7634
weighted avg	0.66	0.68	0.65	7634