

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4
Run: njit-sub02.text+aug (njit-sub02.text+aug.2020A.task1.run)

EVALUATOR: Alertng Performance
Overall performance

> High Importance Alert Worth: -0.5023640661938521
> Low Importance Alert Worth: -0.009589548270742107
> Accumulated Alert Worth: -0.2559768072322971

EVALUATOR: nDCG and Priority
Overall performance

> nDCG: 0.47799093750033034

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.23882004219440164
> Information Type Recall (positive class, multi-type, macro): 0.2151662911401493
> Information Type F1 (positive class, multi-type, macro): 0.20787572870118626
> Information Type Accuracy (overall, multi-type, macro): 0.940736453372423
> High Importance Information Type Precision (positive class, multi-type, macro): 0.19973312813035107
> High Importance Information Type Recall (positive class, multi-type, macro): 0.13527314070792332
> High Importance Information Type F1 (positive class, multi-type, macro): 0.14806909245642058
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9764455712766829
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.2723231113921593
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.28364613436777153
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.2591385597681283
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9101286380259145

EVALUATOR: Information Priority Level
Overall Performance

> Priority Label Prediction (F1, macro): 0.15836546618358993
> Priority Label Prediction High Importance (F1, macro): 0.09823400887070127
> Priority Label Prediction Low Importance (F1, macro): 0.20990671530892308

LATEX

njit-sub02.text+aug & 0.4780 & -0.5024 & -0.2560 & 0.1481 & 0.2079 & 0.9407 & 0.0982 & 0.1584 \\

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4

Run: njit-sub02.text+aug (njit-sub02.text+aug.2020A.task1.run)

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

athensEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.1109616878847648
Information Type Recall (positive class, multi-type, macro): 0.13836163836163837
Information Type F1 (positive class, multi-type, macro): 0.1065048159387782
Information Type Accuracy (overall, multi-type, macro): 0.9669865018702228
High Importance Information Type Precision (positive class, multi-type, macro): 0.037037037037037035
High Importance Information Type Recall (positive class, multi-type, macro): 0.14285714285714285
High Importance Information Type F1 (positive class, multi-type, macro): 0.05882352941176471
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9767441860465116
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1743256743256743
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1345083487940631
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14737449010478976
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9586227725762608

baltimoreFlashFlood2020

Information Type Precision (positive class, multi-type, macro): 0.0
Information Type Recall (positive class, multi-type, macro): 0.0
Information Type F1 (positive class, multi-type, macro): 0.0
Information Type Accuracy (overall, multi-type, macro): 0.9821223552566836
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): 0.9957356076759063
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0
Low Importance Information Type Recall (positive class, multi-type, macro): 0.0
Low Importance Information Type F1 (positive class, multi-type, macro): 0.0
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9704538531830643

brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.11177046937681401
Information Type Recall (positive class, multi-type, macro): 0.0711093216078261
Information Type F1 (positive class, multi-type, macro): 0.08604251391652966
Information Type Accuracy (overall, multi-type, macro): 0.9208286494299021
High Importance Information Type Precision (positive class, multi-type, macro): 0.027777777777777776
High Importance Information Type Recall (positive class, multi-type, macro): 0.018518518518518517
High Importance Information Type F1 (positive class, multi-type, macro): 0.022222222222222223
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9909533750869869
Low Importance Information Type Precision (positive class, multi-type, macro): 0.18376420503313076
Low Importance Information Type Recall (positive class, multi-type, macro): 0.11618715282723259
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14074562108307892

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8607217417238295

daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.07545751756792304
Information Type Recall (positive class, multi-type, macro): 0.03800366300366301
Information Type F1 (positive class, multi-type, macro): 0.048741298316850104
Information Type Accuracy (overall, multi-type, macro): 0.9548178137651823
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): 0.9989473684210526
Low Importance Information Type Precision (positive class, multi-type, macro): 0.14013538976899992
Low Importance Information Type Recall (positive class, multi-type, macro): 0.07057823129251702
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09051955401700733
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9169924812030075

elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.06753789197228112
Information Type Recall (positive class, multi-type, macro): 0.06188407502915779
Information Type F1 (positive class, multi-type, macro): 0.06438920158432354
Information Type Accuracy (overall, multi-type, macro): 0.9644509165667295
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): 0.9985152190051968
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12542751366280777
Low Importance Information Type Recall (positive class, multi-type, macro): 0.11492756791129304
Low Importance Information Type F1 (positive class, multi-type, macro): 0.11957994579945799
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9352529430480434

gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.11642677783066091
Information Type Recall (positive class, multi-type, macro): 0.05685684326461026
Information Type F1 (positive class, multi-type, macro): 0.07624550723142273
Information Type Accuracy (overall, multi-type, macro): 0.9639934533551554
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): 0.999645390070922
Low Importance Information Type Precision (positive class, multi-type, macro): 0.21622115882837026
Low Importance Information Type Recall (positive class, multi-type, macro): 0.10559128034856191
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14159879914407078
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9334346504559271

hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.10712069562925292
Information Type Recall (positive class, multi-type, macro): 0.2296703296703297

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Information Type F1 (positive class, multi-type, macro): 0.0961530578044086
Information Type Accuracy (overall, multi-type, macro): 0.9404625225520749
High Importance Information Type Precision (positive class, multi-type, macro): 0.17231638418079095
High Importance Information Type Recall (positive class, multi-type, macro): 0.13888888888888887
High Importance Information Type F1 (positive class, multi-type, macro): 0.12136752136752137
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9733475479744137
Low Importance Information Type Precision (positive class, multi-type, macro): 0.051238676870791755
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3074829931972789
Low Importance Information Type F1 (positive class, multi-type, macro): 0.07454066046459763
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9122753579043558

indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.25426942650225093
Information Type Recall (positive class, multi-type, macro): 0.15988077562573333
Information Type F1 (positive class, multi-type, macro): 0.18176449104217182
Information Type Accuracy (overall, multi-type, macro): 0.9027823240589197
High Importance Information Type Precision (positive class, multi-type, macro): 0.3199404761904762
High Importance Information Type Recall (positive class, multi-type, macro): 0.18574423480083857
High Importance Information Type F1 (positive class, multi-type, macro): 0.23275187297327515
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9152482269503546
Low Importance Information Type Precision (positive class, multi-type, macro): 0.197979955340915
Low Importance Information Type Recall (positive class, multi-type, macro): 0.13771209633278597
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13806102081551183
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.89209726443769

keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.23456926766279285
Information Type Recall (positive class, multi-type, macro): 0.13254002143772167
Information Type F1 (positive class, multi-type, macro): 0.15397378256317681
Information Type Accuracy (overall, multi-type, macro): 0.8701554200275428
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): 0.9539641943734015
Low Importance Information Type Precision (positive class, multi-type, macro): 0.4356286399451867
Low Importance Information Type Recall (positive class, multi-type, macro): 0.246145754098626
Low Importance Information Type F1 (positive class, multi-type, macro): 0.28595131047447125
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7983193277310924

myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.16819650937297997
Information Type Recall (positive class, multi-type, macro): 0.052751676125739985
Information Type F1 (positive class, multi-type, macro): 0.062270627717699915
Information Type Accuracy (overall, multi-type, macro): 0.9477905073649754
High Importance Information Type Precision (positive class, multi-type, macro): 0.16666666666666666
High Importance Information Type Recall (positive class, multi-type, macro): 0.009689922480620155
High Importance Information Type F1 (positive class, multi-type, macro): 0.018315018315018312

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9595744680851065
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1695078031212485
Low Importance Information Type Recall (positive class, multi-type, macro): 0.08966175067869983
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09994686434856988
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9376899696048632

papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.20690014592453615
Information Type Recall (positive class, multi-type, macro): 0.055278980278980275
Information Type F1 (positive class, multi-type, macro): 0.07430936788840617
Information Type Accuracy (overall, multi-type, macro): 0.8692135604887283
High Importance Information Type Precision (positive class, multi-type, macro): 0.0925925925925926
High Importance Information Type Recall (positive class, multi-type, macro): 0.025252525252525252
High Importance Information Type F1 (positive class, multi-type, macro): 0.03968253968253969
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9459358687546607
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3048780487804878
Low Importance Information Type Recall (positive class, multi-type, macro): 0.08101594173022744
Low Importance Information Type F1 (positive class, multi-type, macro): 0.10398950635057748
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8034515819750718

siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.17083388309803402
Information Type Recall (positive class, multi-type, macro): 0.044002126905352705
Information Type F1 (positive class, multi-type, macro): 0.06868488886032745
Information Type Accuracy (overall, multi-type, macro): 0.9428756897111328
High Importance Information Type Precision (positive class, multi-type, macro): 0.15151515151515152
High Importance Information Type Recall (positive class, multi-type, macro): 0.023809523809523808
High Importance Information Type F1 (positive class, multi-type, macro): 0.0411522633744856
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9757383966244725
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1873927958833619
Low Importance Information Type Recall (positive class, multi-type, macro): 0.0613100724160632
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09228428213390619
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9147076552139843

typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.033929198790564635
Information Type Recall (positive class, multi-type, macro): 0.14871794871794872
Information Type F1 (positive class, multi-type, macro): 0.052880993246104804
Information Type Accuracy (overall, multi-type, macro): 0.9437107956421262
High Importance Information Type Precision (positive class, multi-type, macro): 0.006410256410256411
High Importance Information Type Recall (positive class, multi-type, macro): 0.08333333333333333
High Importance Information Type F1 (positive class, multi-type, macro): 0.011904761904761906
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9824749642346209
Low Importance Information Type Precision (positive class, multi-type, macro): 0.05751686368797169
Low Importance Information Type Recall (positive class, multi-type, macro): 0.20476190476190476
Low Importance Information Type F1 (positive class, multi-type, macro): 0.08800347725297016
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9104843654199878

typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.06290500126465486
Information Type Recall (positive class, multi-type, macro): 0.06187819728211404
Information Type F1 (positive class, multi-type, macro): 0.046499796499796506
Information Type Accuracy (overall, multi-type, macro): 0.9475151713957684
High Importance Information Type Precision (positive class, multi-type, macro): 0.038461538461538464
High Importance Information Type Recall (positive class, multi-type, macro): 0.011627906976744186
High Importance Information Type F1 (positive class, multi-type, macro): 0.017857142857142856
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9793887704335464
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0838565408101832
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1049498746867168
Low Importance Information Type F1 (positive class, multi-type, macro): 0.07105064247921392
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9201949436491015

whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.3181127815274157
Information Type Recall (positive class, multi-type, macro): 0.16046743900181457
Information Type F1 (positive class, multi-type, macro): 0.19685027747620085
Information Type Accuracy (overall, multi-type, macro): 0.865934065934066
High Importance Information Type Precision (positive class, multi-type, macro): 0.3553030303030303
High Importance Information Type Recall (positive class, multi-type, macro): 0.13001638001638002
High Importance Information Type F1 (positive class, multi-type, macro): 0.18790296582849775
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2862354254340317
Low Importance Information Type Recall (positive class, multi-type, macro): 0.18656834670361563
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2045194017456607
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8367346938775511

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Task 2

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4

Run: njit-sub02.text+aug (njit-sub02.text+aug.2020A.task1.run)

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

Request-GoodsServices				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12219
Request-GoodsServices	0.00	0.00	0.00	8
avg / total	1.00	1.00	1.00	12227
Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12219
Request-SearchAndRescue	0.00	0.00	0.00	8
avg / total	1.00	1.00	1.00	12227
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12199
Request-InformationWanted	0.06	0.07	0.07	28
avg / total	1.00	1.00	1.00	12227
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12217
CallToAction-Volunteer	0.80	0.80	0.80	10
avg / total	1.00	1.00	1.00	12227
CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	12112

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CallToAction-MovePeople	0.69	0.30	0.42	115
avg / total	0.99	0.99	0.99	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.97	0.99	12190
Report-FirstPartyObservation	0.02	0.19	0.04	37
avg / total	0.99	0.97	0.98	12227

Report-Location				
	precision	recall	f1-score	support
Other Classes	0.75	0.91	0.82	8789
Report-Location	0.47	0.21	0.29	3438
avg / total	0.67	0.71	0.67	12227

Report-EmergingThreats				
	precision	recall	f1-score	support
Other Classes	0.96	0.97	0.96	11422
Report-EmergingThreats	0.45	0.37	0.40	805
avg / total	0.92	0.93	0.93	12227

Report-NewSubEvent				
	precision	recall	f1-score	support
Other Classes	0.97	0.99	0.98	11831
Report-NewSubEvent	0.04	0.01	0.02	396
avg / total	0.94	0.96	0.95	12227

Report-MultimediaShare				
	precision	recall	f1-score	support
Other Classes	0.83	0.82	0.82	9860
Report-MultimediaShare	0.27	0.29	0.28	2367

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avg / total 0.72 0.71 0.72 12227

Report-ServiceAvailable

precision recall f1-score support

Other Classes 1.00 0.99 0.99 12188

Report-ServiceAvailable 0.03 0.13 0.04 39

avg / total 0.99 0.98 0.99 12227

Other-Advice

precision recall f1-score support

Other Classes 0.99 0.99 0.99 12087

Other-Advice 0.29 0.43 0.34 140

avg / total 0.99 0.98 0.98 12227

Other-Any

precision recall f1-score support

Other Classes 1.00 1.00 1.00 12227

avg / total 1.00 1.00 1.00 12227