

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4
Run: elmo_all_2020_eec (elmo_all_eec.2020A.task1.run)

EVALUATOR: Alerting Performance
Overall performance

> High Importance Alert Worth: -0.26737588652482025
> Low Importance Alert Worth: -0.10524660821333764
> Accumulated Alert Worth: -0.18631124736907895

EVALUATOR: nDCG and Priority
Overall performance

> nDCG: 0.4234723225546753

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.06655281322351868
> Information Type Recall (positive class, multi-type, macro): 0.5228040954837095
> Information Type F1 (positive class, multi-type, macro): 0.09932380880687255
> Information Type Accuracy (overall, multi-type, macro): 0.7834867349057255
> High Importance Information Type Precision (positive class, multi-type, macro): 0.043368845292817
> High Importance Information Type Recall (positive class, multi-type, macro): 0.5615287691374649
> High Importance Information Type F1 (positive class, multi-type, macro): 0.07695631727175517
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.8094381287314959
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.08642478573554871
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.48961151806620495
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.11849594440840175
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7612426830550655

EVALUATOR: Information Priority Level
Overall Performance

> Priority Label Prediction (F1, macro): 0.16122219703897428
> Priority Label Prediction High Importance (F1, macro): 0.13697443011807056
> Priority Label Prediction Low Importance (F1, macro): 0.18200599725689176

LATEX

elmo_all_2020_eec & 0.4235 & -0.2674 & -0.1863 & 0.0770 & 0.0993 & 0.7835 & 0.1370 & 0.1612 \\

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

Run: elmo_all_2020_eec (elmo_all_eec.2020A.task1.run)

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

athensEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.124407416455602
Information Type Recall (positive class, multi-type, macro): 0.42124542124542125
Information Type F1 (positive class, multi-type, macro): 0.13705101614270013
Information Type Accuracy (overall, multi-type, macro): 0.7959017726459586
High Importance Information Type Precision (positive class, multi-type, macro): 0.06703373025338638
High Importance Information Type Recall (positive class, multi-type, macro): 0.5
High Importance Information Type F1 (positive class, multi-type, macro): 0.09982196209813417
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7656800563777307
Low Importance Information Type Precision (positive class, multi-type, macro): 0.17358486177178678
Low Importance Information Type Recall (positive class, multi-type, macro): 0.35374149659863946
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1689616338951852
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8218061008758683

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): 0.7766114482532394
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): 0.8678038379530916
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): 0.698446542796223

brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.12009172527903834
Information Type Recall (positive class, multi-type, macro): 0.29624316463008527
Information Type F1 (positive class, multi-type, macro): 0.11296336374888213
Information Type Accuracy (overall, multi-type, macro): 0.8063272844066164
High Importance Information Type Precision (positive class, multi-type, macro): 0.021240801271746507
High Importance Information Type Recall (positive class, multi-type, macro): 0.3333333333333333
High Importance Information Type F1 (positive class, multi-type, macro): 0.039519445914454686
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8556019485038272
Low Importance Information Type Precision (positive class, multi-type, macro): 0.20482108871385993
Low Importance Information Type Recall (positive class, multi-type, macro): 0.26445159145587277
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1759152933212485

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7640918580375783

daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.05814579672354175
Information Type Recall (positive class, multi-type, macro): 0.03287545787545788
Information Type F1 (positive class, multi-type, macro): 0.04114549525566877
Information Type Accuracy (overall, multi-type, macro): 0.8461538461538461
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): 0.926315789473684
Low Importance Information Type Precision (positive class, multi-type, macro): 0.10798505105800611
Low Importance Information Type Recall (positive class, multi-type, macro): 0.06105442176870749
Low Importance Information Type F1 (positive class, multi-type, macro): 0.07641306261767057
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7774436090225565

elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.07669704732204732
Information Type Recall (positive class, multi-type, macro): 0.12019431396257103
Information Type F1 (positive class, multi-type, macro): 0.055813764279797735
Information Type Accuracy (overall, multi-type, macro): 0.8515504540003426
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): 0.9276169265033407
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1424373735980879
Low Importance Information Type Recall (positive class, multi-type, macro): 0.22321801164477478
Low Importance Information Type F1 (positive class, multi-type, macro): 0.10365413366248151
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7863506204263443

gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.11442705220816164
Information Type Recall (positive class, multi-type, macro): 0.18829444557599898
Information Type F1 (positive class, multi-type, macro): 0.08317052800537984
Information Type Accuracy (overall, multi-type, macro): 0.8669394435351883
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): 0.94822695035461
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2125073826723002
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3496896846411409
Low Importance Information Type F1 (positive class, multi-type, macro): 0.15445955200999115
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7972644376899696

hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.01931288653544523
Information Type Recall (positive class, multi-type, macro): 0.5144688644688644

elmo_all_eec**task2**

Information Type F1 (positive class, multi-type, macro): 0.03689143571558156
Information Type Accuracy (overall, multi-type, macro): 0.7077251107101853
High Importance Information Type Precision (positive class, multi-type, macro): 0.017274690901318602
High Importance Information Type Recall (positive class, multi-type, macro): 0.5277777777777778
High Importance Information Type F1 (positive class, multi-type, macro): 0.03295012335995477
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7039800995024876
Low Importance Information Type Precision (positive class, multi-type, macro): 0.021059911364696624
Low Importance Information Type Recall (positive class, multi-type, macro): 0.503061224489796
Low Importance Information Type F1 (positive class, multi-type, macro): 0.04026970344897595
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7109351203167835

indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.09177054277668986
Information Type Recall (positive class, multi-type, macro): 0.22984196097403645
Information Type F1 (positive class, multi-type, macro): 0.1253520484101913
Information Type Accuracy (overall, multi-type, macro): 0.8078559738134208
High Importance Information Type Precision (positive class, multi-type, macro): 0.11952081696779261
High Importance Information Type Recall (positive class, multi-type, macro): 0.2665094339622642
High Importance Information Type F1 (positive class, multi-type, macro): 0.16497693548185466
High Importance Information Type Accuracy (overall, multi-type, macro): 0.799290780141844
Low Importance Information Type Precision (positive class, multi-type, macro): 0.06798459347003036
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1984126984126984
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09138785949162273
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8151975683890578

keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.12541240589957434
Information Type Recall (positive class, multi-type, macro): 0.32137410567228175
Information Type F1 (positive class, multi-type, macro): 0.12039572473022248
Information Type Accuracy (overall, multi-type, macro): 0.6360417076529608
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): 0.6027280477408354
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2329087538134952
Low Importance Information Type Recall (positive class, multi-type, macro): 0.5968376248199518
Low Importance Information Type F1 (positive class, multi-type, macro): 0.22359206021327033
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6645962732919255

myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.08512511316848048
Information Type Recall (positive class, multi-type, macro): 0.24008129565874933
Information Type F1 (positive class, multi-type, macro): 0.10620983512581023
Information Type Accuracy (overall, multi-type, macro): 0.7900163666121114
High Importance Information Type Precision (positive class, multi-type, macro): 0.054499077390643656
High Importance Information Type Recall (positive class, multi-type, macro): 0.2596899224806202
High Importance Information Type F1 (positive class, multi-type, macro): 0.07564484126984128

elmo_all_eec**task2**

High Importance Information Type Accuracy (overall, multi-type, macro): 0.8241134751773048
Low Importance Information Type Precision (positive class, multi-type, macro): 0.11137600097805489
Low Importance Information Type Recall (positive class, multi-type, macro): 0.22327390124000293
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13240840128806933
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.760790273556231

papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.1403592752598492
Information Type Recall (positive class, multi-type, macro): 0.20763865763865766
Information Type F1 (positive class, multi-type, macro): 0.1550413179606077
Information Type Accuracy (overall, multi-type, macro): 0.8296334537945275
High Importance Information Type Precision (positive class, multi-type, macro): 0.054413024850042846
High Importance Information Type Recall (positive class, multi-type, macro): 0.16035353535353536
High Importance Information Type F1 (positive class, multi-type, macro): 0.08125399872040946
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7445935868754661
Low Importance Information Type Precision (positive class, multi-type, macro): 0.21402748989682602
Low Importance Information Type Recall (positive class, multi-type, macro): 0.24816876245447675
Low Importance Information Type F1 (positive class, multi-type, macro): 0.21828759159506328
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9025247682965803

siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.08493463499195929
Information Type Recall (positive class, multi-type, macro): 0.22714640198511168
Information Type F1 (positive class, multi-type, macro): 0.11513457360852214
Information Type Accuracy (overall, multi-type, macro): 0.790814670561506
High Importance Information Type Precision (positive class, multi-type, macro): 0.04442211667275606
High Importance Information Type Recall (positive class, multi-type, macro): 0.24047619047619048
High Importance Information Type F1 (positive class, multi-type, macro): 0.06987691023835602
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7960618846694795
Low Importance Information Type Precision (positive class, multi-type, macro): 0.11965965069413345
Low Importance Information Type Recall (positive class, multi-type, macro): 0.21572086899275839
Low Importance Information Type F1 (positive class, multi-type, macro): 0.15392685649723598
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7863170584689573

typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.010255911958698337
Information Type Recall (positive class, multi-type, macro): 0.30854700854700856
Information Type F1 (positive class, multi-type, macro): 0.01964161576560605
Information Type Accuracy (overall, multi-type, macro): 0.6918124793661276
High Importance Information Type Precision (positive class, multi-type, macro): 0.009969367864104706
High Importance Information Type Recall (positive class, multi-type, macro): 0.25925925925925924
High Importance Information Type F1 (positive class, multi-type, macro): 0.018983466013472134
High Importance Information Type Accuracy (overall, multi-type, macro): 0.6663090128755365
Low Importance Information Type Precision (positive class, multi-type, macro): 0.010501521182635734
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3507936507936508
Low Importance Information Type F1 (positive class, multi-type, macro): 0.020205744124577974
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7136725935009197

typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.03343297254968321
Information Type Recall (positive class, multi-type, macro): 0.2484602046260553
Information Type F1 (positive class, multi-type, macro): 0.057338653430803785
Information Type Accuracy (overall, multi-type, macro): 0.7825159914712153
High Importance Information Type Precision (positive class, multi-type, macro): 0.03235864238168385
High Importance Information Type Recall (positive class, multi-type, macro): 0.22674418604651161
High Importance Information Type F1 (positive class, multi-type, macro): 0.053376954805780585
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7839374555792467
Low Importance Information Type Precision (positive class, multi-type, macro): 0.034353826979396936
Low Importance Information Type Recall (positive class, multi-type, macro): 0.26707393483709274
Low Importance Information Type F1 (positive class, multi-type, macro): 0.06073439510939511
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7812975936643314

whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.19887832830222393
Information Type Recall (positive class, multi-type, macro): 0.4647826603701391
Information Type F1 (positive class, multi-type, macro): 0.2469517535230264
Information Type Accuracy (overall, multi-type, macro): 0.7032967032967034
High Importance Information Type Precision (positive class, multi-type, macro): 0.17505196830987058
High Importance Information Type Recall (positive class, multi-type, macro): 0.4212906087906088
High Importance Information Type F1 (positive class, multi-type, macro): 0.22838899074841143
High Importance Information Type Accuracy (overall, multi-type, macro): 0.692857142857143
Low Importance Information Type Precision (positive class, multi-type, macro): 0.219300922581384
Low Importance Information Type Recall (positive class, multi-type, macro): 0.5020615617240223
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2628626930441249
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7122448979591837

elmo_all_eec**task2**

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

Run: elmo_all_2020_eec (elmo_all_eec.2020A.task1.run)

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

Request-GoodsServices				
	precision	recall	f1-score	support
Other Classes	1.00	0.91	0.95	12219
Request-GoodsServices	0.00	0.50	0.01	8
avg / total	1.00	0.91	0.95	12227

Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	0.91	0.95	12219
Request-SearchAndRescue	0.00	0.25	0.00	8
avg / total	1.00	0.91	0.95	12227

Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	1.00	0.89	0.94	12199
Request-InformationWanted	0.00	0.04	0.00	28
avg / total	1.00	0.89	0.94	12227

CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	0.93	0.97	12217
CallToAction-Volunteer	0.01	1.00	0.02	10
avg / total	1.00	0.93	0.97	12227

CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	0.90	0.94	12112

elmo_all_eec**task2**

CallToAction-MovePeople	0.03	0.37	0.06	115
avg / total	0.98	0.90	0.94	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.64	0.78	12190
Report-FirstPartyObservation	0.01	0.86	0.01	37
avg / total	1.00	0.64	0.78	12227

Report-Location				
	precision	recall	f1-score	support
Other Classes	0.75	0.58	0.65	8789
Report-Location	0.32	0.51	0.39	3438
avg / total	0.63	0.56	0.58	12227

Report-EmergingThreats				
	precision	recall	f1-score	support
Other Classes	0.98	0.65	0.78	11422
Report-EmergingThreats	0.15	0.86	0.25	805
avg / total	0.93	0.66	0.74	12227

Report-NewSubEvent				
	precision	recall	f1-score	support
Other Classes	0.98	0.64	0.78	11831
Report-NewSubEvent	0.06	0.70	0.11	396
avg / total	0.95	0.65	0.76	12227

Report-MultimediaShare				
	precision	recall	f1-score	support
Other Classes	0.87	0.49	0.63	9860
Report-MultimediaShare	0.25	0.69	0.36	2367

elmo_all_eec**task2**

avg / total	0.75	0.53	0.58	12227
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Report-ServiceAvailable

precision	recall	f1-score	support
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Other Classes	1.00	0.83	0.91	12188
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Report-ServiceAvailable	0.01	0.69	0.03	39
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avg / total	1.00	0.83	0.90	12227
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Other-Advice

precision	recall	f1-score	support
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Other Classes	0.99	0.78	0.87	12087
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Other-Advice	0.02	0.33	0.03	140
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avg / total	0.98	0.78	0.86	12227
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Other-Any

precision	recall	f1-score	support
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Other Classes	1.00	1.00	1.00	12227
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avg / total	1.00	1.00	1.00	12227
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