

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4
Run: elmo_all_2020_brf (elmo_all_brf.2020A.task1.run)

EVALUATOR: Alerting Performance
Overall performance

> High Importance Alert Worth: -0.2627659574468071
> Low Importance Alert Worth: -0.14289229307963192
> Accumulated Alert Worth: -0.2028291252632195

EVALUATOR: nDCG and Priority
Overall performance

> nDCG: 0.42120453221431503

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.11364601530093127
> Information Type Recall (positive class, multi-type, macro): 0.5281596065463043
> Information Type F1 (positive class, multi-type, macro): 0.14375622880468916
> Information Type Accuracy (overall, multi-type, macro): 0.7502412693219922
> High Importance Information Type Precision (positive class, multi-type, macro): 0.053559310358521024
> High Importance Information Type Recall (positive class, multi-type, macro): 0.545520856087138
> High Importance Information Type F1 (positive class, multi-type, macro): 0.09334817276211406
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.8134865461683161
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.13262076423011343
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.5226771066913043
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.15967456229181817
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7302690766336796

EVALUATOR: Information Priority Level
Overall Performance

> Priority Label Prediction (F1, macro): 0.2574879051429378
> Priority Label Prediction High Importance (F1, macro): 0.26295237523490145
> Priority Label Prediction Low Importance (F1, macro): 0.2557622830086335

LATEX

elmo_all_2020_brf & 0.4212 & -0.2628 & -0.2028 & 0.0933 & 0.1438 & 0.7502 & 0.2630 & 0.2575 \\

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4
Run: elmo_all_2020_brf (elmo_all_brf.2020A.task1.run)

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

athensEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.08552611199130741
Information Type Recall (positive class, multi-type, macro): 0.2960177743824802
Information Type F1 (positive class, multi-type, macro): 0.09613819137394954
Information Type Accuracy (overall, multi-type, macro): 0.7492600422832981
High Importance Information Type Precision (positive class, multi-type, macro): 0.03202089637520188
High Importance Information Type Recall (positive class, multi-type, macro): 0.5
High Importance Information Type F1 (positive class, multi-type, macro): 0.05660506678318383
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7928118393234671
Low Importance Information Type Precision (positive class, multi-type, macro): 0.10242249587007757
Low Importance Information Type Recall (positive class, multi-type, macro): 0.23160233471378985
Low Importance Information Type F1 (positive class, multi-type, macro): 0.10862233598155976
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7355068432179815

baltimoreFlashFlood2020

Information Type Precision (positive class, multi-type, macro): 0.04043010752688172
Information Type Recall (positive class, multi-type, macro): 0.059743589743589745
Information Type F1 (positive class, multi-type, macro): 0.027288832070130584
Information Type Accuracy (overall, multi-type, macro): 0.7790191897654585
High Importance Information Type Precision (positive class, multi-type, macro): 0.001792114695340502
High Importance Information Type Recall (positive class, multi-type, macro): 0.16666666666666666
High Importance Information Type F1 (positive class, multi-type, macro): 0.003546099290780142
High Importance Information Type Accuracy (overall, multi-type, macro): 0.886638237384506
Low Importance Information Type Precision (positive class, multi-type, macro): 0.05263157894736842
Low Importance Information Type Recall (positive class, multi-type, macro): 0.025978407557354928
Low Importance Information Type F1 (positive class, multi-type, macro): 0.03478653715834651
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7450342273594432

brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.19545410075819203
Information Type Recall (positive class, multi-type, macro): 0.35704240580166036
Information Type F1 (positive class, multi-type, macro): 0.20034896541254044
Information Type Accuracy (overall, multi-type, macro): 0.792400835073069
High Importance Information Type Precision (positive class, multi-type, macro): 0.023145376478077722
High Importance Information Type Recall (positive class, multi-type, macro): 0.30555555555555556
High Importance Information Type F1 (positive class, multi-type, macro): 0.04180297320800033
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8900487125956854
Low Importance Information Type Precision (positive class, multi-type, macro): 0.24986738210980705
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3733014111425355
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2504161208455531

elmo_all_br

task1

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7615646632238218

daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.0667037969358635
Information Type Recall (positive class, multi-type, macro): 0.25319307607210256
Information Type F1 (positive class, multi-type, macro): 0.07300278796995552
Information Type Accuracy (overall, multi-type, macro): 0.8144000000000001
High Importance Information Type Precision (positive class, multi-type, macro): 0.005747126436781609
High Importance Information Type Recall (positive class, multi-type, macro): 0.16666666666666666
High Importance Information Type F1 (positive class, multi-type, macro): 0.011111111111111112
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9150877192982456
Low Importance Information Type Precision (positive class, multi-type, macro): 0.08595327183031039
Low Importance Information Type Recall (positive class, multi-type, macro): 0.28051720535802965
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09254752803064323
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7826038781163435

elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.10190949073121859
Information Type Recall (positive class, multi-type, macro): 0.21916478770788256
Information Type F1 (positive class, multi-type, macro): 0.10373162895113205
Information Type Accuracy (overall, multi-type, macro): 0.8313140311804007
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): 0.9033036377134374
Low Importance Information Type Precision (positive class, multi-type, macro): 0.13409143517265604
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2883747206682665
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13648898546201585
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8085804712226

gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.154653441502847
Information Type Recall (positive class, multi-type, macro): 0.2618008324192084
Information Type F1 (positive class, multi-type, macro): 0.14725114671742343
Information Type Accuracy (overall, multi-type, macro): 0.8271489361702126
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): 0.9170212765957447
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2034913703984829
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3444747794989584
Low Importance Information Type F1 (positive class, multi-type, macro): 0.19375150883871503
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7987681970884658

hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.05999859680575569
Information Type Recall (positive class, multi-type, macro): 0.5051086748238488

elmo_all_br**task1**

Information Type F1 (positive class, multi-type, macro): 0.05840315599685362
Information Type Accuracy (overall, multi-type, macro): 0.7043070362473347
High Importance Information Type Precision (positive class, multi-type, macro): 0.02474503025064823
High Importance Information Type Recall (positive class, multi-type, macro): 0.49444444444444446
High Importance Information Type F1 (positive class, multi-type, macro): 0.046502346513534694
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7661691542288557
Low Importance Information Type Precision (positive class, multi-type, macro): 0.07113130203368437
Low Importance Information Type Recall (positive class, multi-type, macro): 0.5084763265226081
Low Importance Information Type F1 (positive class, multi-type, macro): 0.06216130636000698
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6847716305689597

indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.14987666928628618
Information Type Recall (positive class, multi-type, macro): 0.26904972048163517
Information Type F1 (positive class, multi-type, macro): 0.14734063859105856
Information Type Accuracy (overall, multi-type, macro): 0.7330212765957447
High Importance Information Type Precision (positive class, multi-type, macro): 0.23693939338111117
High Importance Information Type Recall (positive class, multi-type, macro): 0.3510132774283718
High Importance Information Type F1 (positive class, multi-type, macro): 0.2637543202716132
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7953900709219858
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12238317746686776
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2431664919721395
Low Importance Information Type F1 (positive class, multi-type, macro): 0.11057842332351499
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7133258678611423

keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.17745509025899647
Information Type Recall (positive class, multi-type, macro): 0.4130784271193265
Information Type F1 (positive class, multi-type, macro): 0.19069879104618262
Information Type Accuracy (overall, multi-type, macro): 0.6978005115089515
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): 0.6526001705029837
Low Importance Information Type Precision (positive class, multi-type, macro): 0.23349353981446905
Low Importance Information Type Recall (positive class, multi-type, macro): 0.5435242462096401
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2509194619028719
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7120743034055727

myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.1316076618617405
Information Type Recall (positive class, multi-type, macro): 0.3818864733061406
Information Type F1 (positive class, multi-type, macro): 0.14575378198487043
Information Type Accuracy (overall, multi-type, macro): 0.728936170212766
High Importance Information Type Precision (positive class, multi-type, macro): 0.03261952861952862
High Importance Information Type Recall (positive class, multi-type, macro): 0.24169435215946844
High Importance Information Type F1 (positive class, multi-type, macro): 0.05216852414381648

elmo_all_brf**task1**

High Importance Information Type Accuracy (overall, multi-type, macro): 0.7127659574468085
Low Importance Information Type Precision (positive class, multi-type, macro): 0.16286707235928108
Low Importance Information Type Recall (positive class, multi-type, macro): 0.42615766945772127
Low Importance Information Type F1 (positive class, multi-type, macro): 0.175307021303098
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7340425531914894

papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.18948680274165763
Information Type Recall (positive class, multi-type, macro): 0.30598585932807293
Information Type F1 (positive class, multi-type, macro): 0.19204952282032017
Information Type Accuracy (overall, multi-type, macro): 0.7537360178970919
High Importance Information Type Precision (positive class, multi-type, macro): 0.051028806584362145
High Importance Information Type Recall (positive class, multi-type, macro): 0.15656565656565657
High Importance Information Type F1 (positive class, multi-type, macro): 0.07697082557417752
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7140193885160327
Low Importance Information Type Precision (positive class, multi-type, macro): 0.23321038047554046
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3531711865162044
Low Importance Information Type F1 (positive class, multi-type, macro): 0.22839016405594417
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7662781113858471

siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.11997538212615368
Information Type Recall (positive class, multi-type, macro): 0.2616734390447942
Information Type F1 (positive class, multi-type, macro): 0.1343753347407283
Information Type Accuracy (overall, multi-type, macro): 0.7454008438818565
High Importance Information Type Precision (positive class, multi-type, macro): 0.05819007824111725
High Importance Information Type Recall (positive class, multi-type, macro): 0.2976190476190476
High Importance Information Type F1 (positive class, multi-type, macro): 0.08442455705356683
High Importance Information Type Accuracy (overall, multi-type, macro): 0.810126582278481
Low Importance Information Type Precision (positive class, multi-type, macro): 0.13948653072142833
Low Importance Information Type Recall (positive class, multi-type, macro): 0.25032219423187196
Low Importance Information Type F1 (positive class, multi-type, macro): 0.150149264536674
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7249611370197647

typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.050640127153405254
Information Type Recall (positive class, multi-type, macro): 0.3474172387490465
Information Type F1 (positive class, multi-type, macro): 0.02705071509945662
Information Type Accuracy (overall, multi-type, macro): 0.6296995708154506
High Importance Information Type Precision (positive class, multi-type, macro): 0.005256355457857565
High Importance Information Type Recall (positive class, multi-type, macro): 0.13888888888888887
High Importance Information Type F1 (positive class, multi-type, macro): 0.009767463535113473
High Importance Information Type Accuracy (overall, multi-type, macro): 0.6841917024320457
Low Importance Information Type Precision (positive class, multi-type, macro): 0.06497184453094663
Low Importance Information Type Recall (positive class, multi-type, macro): 0.41326829659962266
Low Importance Information Type F1 (positive class, multi-type, macro): 0.03250858401451235
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6124915292523154

typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.07240399561074348
Information Type Recall (positive class, multi-type, macro): 0.2646948834359893
Information Type F1 (positive class, multi-type, macro): 0.06484870936091039
Information Type Accuracy (overall, multi-type, macro): 0.6846908315565032
High Importance Information Type Precision (positive class, multi-type, macro): 0.02876652844543931
High Importance Information Type Recall (positive class, multi-type, macro): 0.31782945736434104
High Importance Information Type F1 (positive class, multi-type, macro): 0.04914934808173243
High Importance Information Type Accuracy (overall, multi-type, macro): 0.7864250177683013
Low Importance Information Type Precision (positive class, multi-type, macro): 0.08618424839978689
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2479155443007203
Low Importance Information Type F1 (positive class, multi-type, macro): 0.06980640239644026
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.652564246436988

whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.21445255990761405
Information Type Recall (positive class, multi-type, macro): 0.45596439071191147
Information Type F1 (positive class, multi-type, macro): 0.26311895125973533
Information Type Accuracy (overall, multi-type, macro): 0.7045714285714284
High Importance Information Type Precision (positive class, multi-type, macro): 0.16867388221554888
High Importance Information Type Recall (positive class, multi-type, macro): 0.36484780234780234
High Importance Information Type F1 (positive class, multi-type, macro): 0.214233673885711
High Importance Information Type Accuracy (overall, multi-type, macro): 0.6968253968253969
Low Importance Information Type Precision (positive class, multi-type, macro): 0.22890898444195046
Low Importance Information Type Recall (positive class, multi-type, macro): 0.4847380501953144
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2785564072725852
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7070175438596492

elmo_all_brf**task1**

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4

Run: elmo_all_2020_brf (elmo_all_brf.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	12216
Request-GoodsServices	0.00	0.18	0.00	11
avg / total	1.00	0.91	0.95	12227
Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	0.85	0.92	12216
Request-SearchAndRescue	0.00	0.45	0.01	11
avg / total	1.00	0.85	0.92	12227
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	1.00	0.90	0.95	12196
Request-InformationWanted	0.00	0.00	0.00	31
avg / total	0.99	0.90	0.94	12227
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	0.92	0.96	12214
CallToAction-Volunteer	0.01	0.77	0.02	13
avg / total	1.00	0.92	0.96	12227
CallToAction-Donations				
	precision	recall	f1-score	support
Other Classes	1.00	0.95	0.97	12197

elmo_all_brf**task1**

CallToAction-Donations	0.04	0.90	0.08	30
avg / total	1.00	0.95	0.97	12227

CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	1.00	0.94	0.97	12109
CallToAction-MovePeople	0.08	0.55	0.15	118
avg / total	0.99	0.94	0.96	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.69	0.82	12187
Report-FirstPartyObservation	0.01	0.53	0.01	40
avg / total	0.99	0.69	0.81	12227

Report-ThirdPartyObservation				
	precision	recall	f1-score	support
Other Classes	0.98	0.50	0.67	11890
Report-ThirdPartyObservation	0.03	0.61	0.06	337
avg / total	0.95	0.51	0.65	12227

Report-Weather				
	precision	recall	f1-score	support
Other Classes	1.00	0.74	0.85	12080
Report-Weather	0.04	0.88	0.08	147
avg / total	0.99	0.74	0.84	12227

Report-Location				
	precision	recall	f1-score	support
Other Classes	0.76	0.76	0.76	8786
Report-Location	0.39	0.39	0.39	3441

elmo_all_brf**task1**

avg / total	0.66	0.66	0.66	12227
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Report-EmergingThreats

	precision	recall	f1-score	support
Other Classes	0.98	0.69	0.81	11419
Report-EmergingThreats	0.16	0.84	0.27	808
avg / total	0.93	0.70	0.77	12227

Report-NewSubEvent

	precision	recall	f1-score	support
Other Classes	0.99	0.61	0.75	11828
Report-NewSubEvent	0.06	0.74	0.11	399
avg / total	0.96	0.61	0.73	12227

Report-MultimediaShare

	precision	recall	f1-score	support
Other Classes	0.91	0.48	0.63	9860
Report-MultimediaShare	0.27	0.80	0.40	2367
avg / total	0.78	0.54	0.58	12227

Report-ServiceAvailable

	precision	recall	f1-score	support
Other Classes	1.00	0.87	0.93	12185
Report-ServiceAvailable	0.01	0.50	0.03	42
avg / total	0.99	0.87	0.93	12227

Report-Factoid

	precision	recall	f1-score	support
Other Classes	0.94	0.63	0.75	10563
Report-Factoid	0.24	0.75	0.36	1664
avg / total	0.85	0.64	0.70	12227

elmo_all_brf**task1**

Report-Official

	precision	recall	f1-score	support
Other Classes	0.98	0.78	0.87	11844
Report-Official	0.05	0.38	0.09	383
avg / total	0.95	0.77	0.85	12227

Report-News

	precision	recall	f1-score	support
Other Classes	0.94	0.46	0.61	10583
Report-News	0.19	0.81	0.31	1644
avg / total	0.84	0.50	0.57	12227

Report-CleanUp

	precision	recall	f1-score	support
Other Classes	1.00	0.81	0.89	12220
Report-CleanUp	0.00	0.86	0.01	7
avg / total	1.00	0.81	0.89	12227

Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.96	0.83	0.89	10806
Report-Hashtags	0.36	0.76	0.49	1421
avg / total	0.89	0.82	0.84	12227

Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.98	0.71	0.82	11999
Report-OriginalEvent	0.00	0.07	0.01	228
avg / total	0.96	0.69	0.80	12227

Other-ContextualInformation

elmo_all_brf**task1**

	precision	recall	f1-score	support
Other Classes	0.96	0.89	0.92	11732
Other-ContextualInformation	0.05	0.15	0.08	495
avg / total	0.92	0.86	0.89	12227

Other-Advice

	precision	recall	f1-score	support
Other Classes	0.99	0.86	0.92	12084
Other-Advice	0.03	0.41	0.06	143
avg / total	0.98	0.86	0.91	12227

Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.99	0.77	0.87	12055
Other-Sentiment	0.03	0.47	0.05	172
avg / total	0.98	0.77	0.86	12227

Other-Discussion

	precision	recall	f1-score	support
Other Classes	1.00	0.72	0.84	12197
Other-Discussion	0.00	0.00	0.00	30
avg / total	0.99	0.72	0.84	12227

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.42	0.77	0.54	4339
Other-Irrelevant	0.76	0.40	0.53	7888
avg / total	0.64	0.53	0.53	12227