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TREC-IS 2020-A Task 1 Notebook Evaluator v2.4
Run: elmo_all_2020_eec (elmo_all_eec.2020A.task1.run)


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EVALUATON: Alertng Performance
Overall performance
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> High Importance Alert Worth:  -0.26737588652482025
> Low Importance Alert Worth:   -0.10524660821333764
> Accumulated Alert Worth:      -0.18631124736907895


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EVALUATON: nDCG and Priority
Overall performance
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> nDCG: 0.42347872101749534


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EVALUATON: Information Type Categorization
Overall performance
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> Information Type Precision (positive class, multi-type, macro):      0.10316219036030477
> Information Type Recall (positive class, multi-type, macro):  0.530651676977427
> Information Type F1 (positive class, multi-type, macro):      0.13709014088639646
> Information Type Accuracy (overall, multi-type, macro):       0.7283847223358141
> High Importance Information Type Precision (positive class, multi-type, macro):      0.043368845292817
> High Importance Information Type Recall (positive class, multi-type, macro):  0.5162368983170778
> High Importance Information Type F1 (positive class, multi-type, macro):      0.0768882659738551
> High Importance Information Type Accuracy (overall, multi-type, macro):       0.8091927700989613
> Low Importance Information Type Precision (positive class, multi-type, macro):       0.12204429932898511
> Low Importance Information Type Recall (positive class, multi-type, macro):   0.5352037123438529
> Low Importance Information Type F1 (positive class, multi-type, macro):       0.15610125927983062
> Low Importance Information Type Accuracy (overall, multi-type, macro):        0.7028663914632416


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EVALUATON: Information Priority Level
Overall Performance
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> Priority Label Prediction (F1, macro): 0.23505369806623613
> Priority Label Prediction High Importance (F1, macro): 0.20759421841161416
> Priority Label Prediction Low Importance (F1, macro): 0.2437251126940115


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LATEX
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elmo_all_2020_eec & 0.4235 & -0.2674 & -0.1863 & 0.0769 & 0.1371 & 0.7284 & 0.2076 & 0.2351 \\
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Run: elmo_all_2020_eec (elmo_all_eec.2020A.task1.run)

EVALUATON: Information Type Categorization (Multi-type)
Per Event Performance
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athensEarthquake2020
  Information Type Precision (positive class, multi-type, macro): 0.1157105189185867
  Information Type Recall (positive class, multi-type, macro): 0.3829100076394193
  Information Type F1 (positive class, multi-type, macro): 0.12325415781125218
  Information Type Accuracy (overall, multi-type, macro): 0.6942071881606765
  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): 0.13108213639180788
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.34593422057818346
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.13065379856276316
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6716368087237121

baltimoreFlashFlood2020
  Information Type Precision (positive class, multi-type, macro): 0.04
  Information Type Recall (positive class, multi-type, macro): 0.019914529914529914
  Information Type F1 (positive class, multi-type, macro): 0.02659058487874465
  Information Type Accuracy (overall, multi-type, macro): 0.7332196162046911
  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): 0.05263157894736842
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.026203328834907783
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.034987611682558754
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6907193356525644

brooklynBlockPartyShooting2020
  Information Type Precision (positive class, multi-type, macro): 0.18478541150495664
  Information Type Recall (positive class, multi-type, macro): 0.30755985128305136
  Information Type F1 (positive class, multi-type, macro): 0.1715346346889161
  Information Type Accuracy (overall, multi-type, macro): 0.7731106471816286
  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): 0.23643107789439147
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.29942085695138326
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.21322364167032498

  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7470607625535655

daytonOhioShooting2020
  Information Type Precision (positive class, multi-type, macro): 0.05799052504149818
  Information Type Recall (positive class, multi-type, macro): 0.1068961131924625
  Information Type F1 (positive class, multi-type, macro): 0.05481121811329737
  Information Type Accuracy (overall, multi-type, macro): 0.8173473684210526
  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): 0.9242105263157896
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.07630332242302393
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.14065278051639804
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.07212002383328601
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.783601108033241

elPasoWalmartShooting2020
  Information Type Precision (positive class, multi-type, macro): 0.10127201921109329
  Information Type Recall (positive class, multi-type, macro): 0.2746616045937664
  Information Type F1 (positive class, multi-type, macro): 0.10083487695680862
  Information Type Accuracy (overall, multi-type, macro): 0.8341202672605789
  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): 0.1332526568567017
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.3613968481496926
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.13267746968001135
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8045950064470754

gilroygarlicShooting2020
  Information Type Precision (positive class, multi-type, macro): 0.15529163592049838
  Information Type Recall (positive class, multi-type, macro): 0.265241776086944
  Information Type F1 (positive class, multi-type, macro): 0.1487082765573271
  Information Type Accuracy (overall, multi-type, macro): 0.8416170212765958
  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): 0.20433109989539258
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.34900233695650523
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.19566878494385143
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8079507278835387

hurricaneBarry2020
  Information Type Precision (positive class, multi-type, macro): 0.05473192946443074
  Information Type Recall (positive class, multi-type, macro): 0.5049103730169818

    Information Type F1 (positive class, multi-type, macro): 0.04767406752693867
    Information Type Accuracy (overall, multi-type, macro): 0.6474200426439234
    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): 0.06656053111593983
    Low Importance Information Type Recall (positive class, multi-type, macro): 0.49768908730304634
    Low Importance Information Type F1 (positive class, multi-type, macro): 0.05232373410598621
    Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6295589720570082

indonesiaEarthquake2020
    Information Type Precision (positive class, multi-type, macro): 0.11356792302527347
    Information Type Recall (positive class, multi-type, macro): 0.3115922403838608
    Information Type F1 (positive class, multi-type, macro): 0.13288396187937251
    Information Type Accuracy (overall, multi-type, macro): 0.7005106382978724
    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): 0.11168806178026741
    Low Importance Information Type Recall (positive class, multi-type, macro): 0.325828916095944
    Low Importance Information Type F1 (positive class, multi-type, macro): 0.12274933863648342
    Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6693169092945129

keralaFloods2020
    Information Type Precision (positive class, multi-type, macro): 0.1680022429973726
    Information Type Recall (positive class, multi-type, macro): 0.4514955838732145
    Information Type F1 (positive class, multi-type, macro): 0.18770390274803905
    Information Type Accuracy (overall, multi-type, macro): 0.6464450127877238
    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): 0.22105558289127972
    Low Importance Information Type Recall (positive class, multi-type, macro): 0.59407313667528222
    Low Importance Information Type F1 (positive class, multi-type, macro): 0.24697881940531455
    Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6602503701709517

myanmarFloods2020
    Information Type Precision (positive class, multi-type, macro): 0.13229062188972873
    Information Type Recall (positive class, multi-type, macro): 0.41428628581166427
    Information Type F1 (positive class, multi-type, macro): 0.1631217089654507
    Information Type Accuracy (overall, multi-type, macro): 0.759063829787234
    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

  High Importance Information Type Accuracy (overall, multi-type, macro): 0.8241134751773048
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.15685637278417663
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.46310619002146763
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.1907459829745905
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7385218365061592

papuaNewguineaEarthquake2020
  Information Type Precision (positive class, multi-type, macro): 0.18540060277500994
  Information Type Recall (positive class, multi-type, macro): 0.3117762918390214
  Information Type F1 (positive class, multi-type, macro): 0.20405111601253914
  Information Type Accuracy (overall, multi-type, macro): 0.7258165548098435
  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): 0.22676510106710482
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.35959400441338535
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.24282915305215905
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7198869657364887

siberianWildfires2020
  Information Type Precision (positive class, multi-type, macro): 0.11029851568153941
  Information Type Recall (positive class, multi-type, macro): 0.26468581402547586
  Information Type F1 (positive class, multi-type, macro): 0.13497860877961856
  Information Type Accuracy (overall, multi-type, macro): 0.7232911392405064
  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): 0.13110158905273417
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.27233095830419757
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.15553703989791198
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7003109038418832

typhoonKrosa2020
  Information Type Precision (positive class, multi-type, macro): 0.048476595030297505
  Information Type Recall (positive class, multi-type, macro): 0.3508334604627511
  Information Type F1 (positive class, multi-type, macro): 0.02695517335242697
  Information Type Accuracy (overall, multi-type, macro): 0.6053218884120171
  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): 0.06063677203014786
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.37975162926385375
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.029472554617360074
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.5860627964761689

typhoonLekima2020
  Information Type Precision (positive class, multi-type, macro): 0.067680458293102
  Information Type Recall (positive class, multi-type, macro): 0.25968157853376195
  Information Type F1 (positive class, multi-type, macro): 0.05924496778349282
  Information Type Accuracy (overall, multi-type, macro): 0.6687420042643923
  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): 0.0788347159493393
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.270082860371841
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.061098024513296684
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6323644933228595

whaleyBridgeCollapse2020
  Information Type Precision (positive class, multi-type, macro): 0.22427950297726668
  Information Type Recall (positive class, multi-type, macro): 0.5123377573496979
  Information Type F1 (positive class, multi-type, macro): 0.2731953045867586
  Information Type Accuracy (overall, multi-type, macro): 0.6721904761904763
  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): 0.23982504024065493
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.5410894884736209
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.28734466685149984
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6656641604010025

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EVALUATON: 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	0.36	0.01	11
avg / total	1.00	0.91	0.95	12227

Request-SearchAndRescue

	precision	recall	f1-score	support
Other Classes	1.00	0.91	0.95	12216
Request-SearchAndRescue	0.00	0.18	0.00	11
avg / total	1.00	0.91	0.95	12227

Request-InformationWanted

	precision	recall	f1-score	support
Other Classes	1.00	0.89	0.94	12196
Request-InformationWanted	0.00	0.03	0.00	31
avg / total	0.99	0.89	0.94	12227

CallToAction-Volunteer

	precision	recall	f1-score	support
Other Classes	1.00	0.93	0.97	12214
CallToAction-Volunteer	0.01	0.77	0.02	13
avg / total	1.00	0.93	0.96	12227

CallToAction-Donations

	precision	recall	f1-score	support
Other Classes	1.00	0.94	0.97	12197

CallToAction-Donations	0.03	0.77	0.06	30
avg / total	1.00	0.94	0.96	12227

CallToAction-MovePeople

	precision	recall	f1-score	support
Other Classes	0.99	0.90	0.94	12109
CallToAction-MovePeople	0.03	0.36	0.06	118
avg / total	0.98	0.90	0.94	12227

Report-FirstPartyObservation

	precision	recall	f1-score	support
Other Classes	1.00	0.64	0.78	12187
Report-FirstPartyObservation	0.01	0.80	0.01	40
avg / total	1.00	0.64	0.78	12227

Report-ThirdPartyObservation

	precision	recall	f1-score	support
Other Classes	0.97	0.54	0.69	11890
Report-ThirdPartyObservation	0.03	0.46	0.05	337
avg / total	0.95	0.54	0.68	12227

Report-Weather

	precision	recall	f1-score	support
Other Classes	1.00	0.74	0.85	12080
Report-Weather	0.04	0.93	0.08	147
avg / total	0.99	0.74	0.84	12227

Report-Location

	precision	recall	f1-score	support
Other Classes	0.75	0.58	0.65	8786
Report-Location	0.32	0.51	0.39	3441

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      avg / total        0.63        0.56        0.58      12227
```

Report-EmergingThreats

	precision	recall	f1-score	support
Other Classes	0.98	0.65	0.78	11419
Report-EmergingThreats	0.15	0.86	0.25	808
avg / total	0.93	0.66	0.74	12227

Report-NewSubEvent

	precision	recall	f1-score	support
Other Classes	0.98	0.64	0.78	11828
Report-NewSubEvent	0.06	0.70	0.11	399
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
avg / total	0.75	0.53	0.58	12227

Report-ServiceAvailable

	precision	recall	f1-score	support
Other Classes	1.00	0.83	0.91	12185
Report-ServiceAvailable	0.01	0.64	0.03	42
avg / total	1.00	0.83	0.90	12227

Report-Factoid

	precision	recall	f1-score	support
Other Classes	0.94	0.59	0.72	10563
Report-Factoid	0.23	0.78	0.35	1664
avg / total	0.85	0.61	0.67	12227

Report-Official

	precision	recall	f1-score	support
Other Classes	0.98	0.70	0.82	11844
Report-Official	0.06	0.58	0.11	383
avg / total	0.95	0.70	0.80	12227

Report-News

	precision	recall	f1-score	support
Other Classes	0.93	0.38	0.54	10583
Report-News	0.17	0.82	0.28	1644
avg / total	0.83	0.44	0.51	12227

Report-CleanUp

	precision	recall	f1-score	support
Other Classes	1.00	0.82	0.90	12220
Report-CleanUp	0.00	0.43	0.00	7
avg / total	1.00	0.82	0.90	12227

Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.98	0.80	0.88	10806
Report-Hashtags	0.37	0.86	0.51	1421
avg / total	0.91	0.81	0.84	12227

Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.98	0.63	0.76	11999
Report-OriginalEvent	0.01	0.18	0.02	228
avg / total	0.96	0.62	0.75	12227

Other-ContextualInformation

```
                              precision    recall   f1-score    support

            Other Classes        0.96       0.79       0.87      11732
Other-ContextualInformation      0.03       0.13       0.04        495

              avg / total        0.92       0.76       0.83      12227
```

Other-Advice
```
              precision    recall   f1-score    support

Other Classes      0.99       0.78       0.87      12084
 Other-Advice      0.02       0.32       0.03        143

  avg / total      0.98       0.78       0.86      12227
```

Other-Sentiment
```
                precision    recall   f1-score    support

 Other Classes      0.99       0.82       0.90      12055
Other-Sentiment      0.04       0.52       0.07        172

    avg / total      0.98       0.82       0.89      12227
```

Other-Discussion
```
                 precision    recall   f1-score    support

 Other Classes       1.00       0.70       0.82      12197
Other-Discussion      0.00       0.13       0.00         30

    avg / total       0.99       0.70       0.82      12227
```

Other-Irrelevant
```
                 precision    recall   f1-score    support

 Other Classes       0.40       0.67       0.50       4339
Other-Irrelevant      0.72       0.45       0.55       7888

    avg / total       0.60       0.53       0.54      12227
```