TREC-IS 2020-A Task 2 Notebook Evaluator v2.4
Run: UCD_CS_T2_R1 (UCD_CS_T2_R1.2020A.task2.run)


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EVALUATON: Alertng Performance
Overall performance
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> High Importance Alert Worth:  -0.5179669030732844
> Low Importance Alert Worth:   -0.051077353978655746
> Accumulated Alert Worth:      -0.2845221285259701


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EVALUATON: nDCG and Priority
Overall performance
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> nDCG: 0.3960075274793307


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EVALUATON: Information Type Categorization
Overall performance
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> Information Type Precision (positive class, multi-type, macro):       0.10917824689877884
> Information Type Recall (positive class, multi-type, macro):  0.27029625077809494
> Information Type F1 (positive class, multi-type, macro):      0.13091415481861748
> Information Type Accuracy (overall, multi-type, macro):       0.8780630508773144
> High Importance Information Type Precision (positive class, multi-type, macro):       0.11265446772563194
> High Importance Information Type Recall (positive class, multi-type, macro):  0.25064251368599194
> High Importance Information Type F1 (positive class, multi-type, macro):      0.15035737029894017
> High Importance Information Type Accuracy (overall, multi-type, macro):       0.9509146424579482
> Low Importance Information Type Precision (positive class, multi-type, macro):        0.10619862904719049
> Low Importance Information Type Recall (positive class, multi-type, macro):   0.2871423111427548
> Low Importance Information Type F1 (positive class, multi-type, macro):       0.11424854154976948
> Low Importance Information Type Accuracy (overall, multi-type, macro):        0.8156188295224853


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EVALUATON: Information Priority Level
Overall Performance
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> Priority Label Prediction (F1, macro): 0.1633436245217991
> Priority Label Prediction High Importance (F1, macro): 0.19389651264543864
> Priority Label Prediction Low Importance (F1, macro): 0.13715543470153663


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LATEX
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UCD_CS_T2_R1 & 0.3960 & -0.5180 & -0.2845 & 0.1504 & 0.1309 & 0.8781 & 0.1939 & 0.1633 \\

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Run: UCD_CS_T2_R1 (UCD_CS_T2_R1.2020A.task2.run)


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EVALUATON: Information Type Categorization (Multi-type)
Per Event Performance
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athensEarthquake2020
  Information Type Precision (positive class, multi-type, macro): 0.03958244820313786
  Information Type Recall (positive class, multi-type, macro): 0.1322011322011322
  Information Type F1 (positive class, multi-type, macro): 0.05506266113553563
  Information Type Accuracy (overall, multi-type, macro): 0.8934786144088469
  High Importance Information Type Precision (positive class, multi-type, macro): 0.004196314541142127
  High Importance Information Type Recall (positive class, multi-type, macro): 0.10714285714285714
  High Importance Information Type F1 (positive class, multi-type, macro): 0.008061821219715956
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.9298801973220576
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.06991341991341991
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.15367965367965367
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.09534909534909534
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8622772576260948

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): 0.914876168607512
  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): 0.9776119402985075
  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): 0.86110265001523

brooklynBlockPartyShooting2020
  Information Type Precision (positive class, multi-type, macro): 0.07069454762387159
  Information Type Recall (positive class, multi-type, macro): 0.05524577599529215
  Information Type F1 (positive class, multi-type, macro): 0.04548853338662256
  Information Type Accuracy (overall, multi-type, macro): 0.8456720732294846
  High Importance Information Type Precision (positive class, multi-type, macro): 0.016952614379084966
  High Importance Information Type Recall (positive class, multi-type, macro): 0.06481481481481481
  High Importance Information Type F1 (positive class, multi-type, macro): 0.026262626262626265
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.9714683368128045
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.1167590618336887
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.047043742721415586
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.06196788235004796

  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7378467044437818

daytonOhioShooting2020
  Information Type Precision (positive class, multi-type, macro): 0.0590019299696719
  Information Type Recall (positive class, multi-type, macro): 0.017399267399267396
  Information Type F1 (positive class, multi-type, macro): 0.026820503641695696
  Information Type Accuracy (overall, multi-type, macro): 0.8876113360323885
  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): 0.991578947368421
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.10957501280081924
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.03231292517006802
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.04980950676314915
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7984962406015038

elPasoWalmartShooting2020
  Information Type Precision (positive class, multi-type, macro): 0.06919617114519663
  Information Type Recall (positive class, multi-type, macro): 0.02910429395336893
  Information Type F1 (positive class, multi-type, macro): 0.0402051282051282
  Information Type Accuracy (overall, multi-type, macro): 0.8999486037347952
  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): 0.9910913140311806
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.1285071749839366
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.054050831627685154
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.07466666666666666
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8218262806236082

gilroygarlicShooting2020
  Information Type Precision (positive class, multi-type, macro): 0.10130272952853597
  Information Type Recall (positive class, multi-type, macro): 0.04363651451030092
  Information Type F1 (positive class, multi-type, macro): 0.06095951641054021
  Information Type Accuracy (overall, multi-type, macro): 0.8973813420621932
  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): 0.9939716312056737
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.1881336405529954
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.08103924123341599
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.11321053047671754
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8145896656534954

hurricaneBarry2020
  Information Type Precision (positive class, multi-type, macro): 0.041559673448623574
  Information Type Recall (positive class, multi-type, macro): 0.28736263736263734

Information Type F1 (positive class, multi-type, macro): 0.06682090082343072
Information Type Accuracy (overall, multi-type, macro): 0.8745284566180088
High Importance Information Type Precision (positive class, multi-type, macro): 0.04738722897995425
High Importance Information Type Recall (positive class, multi-type, macro): 0.35555555555555557
High Importance Information Type F1 (positive class, multi-type, macro): 0.07850854606537679
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9108031272210377
Low Importance Information Type Precision (positive class, multi-type, macro): 0.036564625850340135
Low Importance Information Type Recall (positive class, multi-type, macro): 0.22891156462585036
Low Importance Information Type F1 (positive class, multi-type, macro): 0.05680291918747697
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8434358818154128

indonesiaEarthquake2020
Information Type Precision (positive class, multi-type, macro): 0.18975045617732908
Information Type Recall (positive class, multi-type, macro): 0.2190077796128544
Information Type F1 (positive class, multi-type, macro): 0.19323196285326555
Information Type Accuracy (overall, multi-type, macro): 0.86759410801964
High Importance Information Type Precision (positive class, multi-type, macro): 0.28619058786741713
High Importance Information Type Recall (positive class, multi-type, macro): 0.2958770090845562
High Importance Information Type F1 (positive class, multi-type, macro): 0.28102158977735014
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9035460992907801
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1070874861572536
Low Importance Information Type Recall (positive class, multi-type, macro): 0.15311986863711002
Low Importance Information Type F1 (positive class, multi-type, macro): 0.11798371120405017
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8367781155015198

keralaFloods2020
Information Type Precision (positive class, multi-type, macro): 0.11292119802758102
Information Type Recall (positive class, multi-type, macro): 0.1845757335448057
Information Type F1 (positive class, multi-type, macro): 0.10075985899802593
Information Type Accuracy (overall, multi-type, macro): 0.7946094825890223
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): 0.9164535379369139
Low Importance Information Type Precision (positive class, multi-type, macro): 0.20971079633693618
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3427835051546392
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1871254524249053
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.690171720862258

myanmarFloods2020
Information Type Precision (positive class, multi-type, macro): 0.03688782575852952
Information Type Recall (positive class, multi-type, macro): 0.08641358641358642
Information Type F1 (positive class, multi-type, macro): 0.04927156177156178
Information Type Accuracy (overall, multi-type, macro): 0.8754500818330607
High Importance Information Type Precision (positive class, multi-type, macro): 0.032051282051282055
High Importance Information Type Recall (positive class, multi-type, macro): 0.11904761904761905
High Importance Information Type F1 (positive class, multi-type, macro): 0.050505050505050504

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  High Importance Information Type Accuracy (overall, multi-type, macro): 0.949290780141844
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.04103343465045593
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.05844155844155845
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.048214285714285716
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8121580547112462

papuaNewguineaEarthquake2020
  Information Type Precision (positive class, multi-type, macro): 0.24278057099825023
  Information Type Recall (positive class, multi-type, macro): 0.19604747104747106
  Information Type F1 (positive class, multi-type, macro): 0.17402609586902654
  Information Type Accuracy (overall, multi-type, macro): 0.8138014111168472
  High Importance Information Type Precision (positive class, multi-type, macro): 0.15066225165562916
  High Importance Information Type Recall (positive class, multi-type, macro): 0.2436868686868687
  High Importance Information Type F1 (positive class, multi-type, macro): 0.18296034550451512
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.9175988068605517
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.3217391304347826
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.15521370164227305
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.16636816761003634
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7248322147651006

siberianWildfires2020
  Information Type Precision (positive class, multi-type, macro): 0.06650778939935567
  Information Type Recall (positive class, multi-type, macro): 0.033846153846153845
  Information Type F1 (positive class, multi-type, macro): 0.04474401567424824
  Information Type Accuracy (overall, multi-type, macro): 0.8683868873742291
  High Importance Information Type Precision (positive class, multi-type, macro): 0.03968253968253968
  High Importance Information Type Recall (positive class, multi-type, macro): 0.023809523809523808
  High Importance Information Type F1 (positive class, multi-type, macro): 0.029761904761904757
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.9300281293952181
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.08950086058519793
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.04244897959183674
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.0575858250276855
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8155515370705244

typhoonKrosa2020
  Information Type Precision (positive class, multi-type, macro): 0.01760948215131482
  Information Type Recall (positive class, multi-type, macro): 0.1358974358974359
  Information Type F1 (positive class, multi-type, macro): 0.029901921307650826
  Information Type Accuracy (overall, multi-type, macro): 0.9019478375701552
  High Importance Information Type Precision (positive class, multi-type, macro): 0.0021645021645021645
  High Importance Information Type Recall (positive class, multi-type, macro): 0.08333333333333333
  High Importance Information Type F1 (positive class, multi-type, macro): 0.0042194092827004225
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.9527896995708156
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.03084803642572567
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.18095238095238095
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.0519155030433226
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8583690987124463
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typhoonLekima2020
  Information Type Precision (positive class, multi-type, macro): 0.026454635108481263
  Information Type Recall (positive class, multi-type, macro): 0.05061121049493143
  Information Type F1 (positive class, multi-type, macro): 0.023390273467712806
  Information Type Accuracy (overall, multi-type, macro): 0.8984746596686896
  High Importance Information Type Precision (positive class, multi-type, macro): 0.017361111111111112
  High Importance Information Type Recall (positive class, multi-type, macro): 0.01937984496124031
  High Importance Information Type F1 (positive class, multi-type, macro): 0.018315018315018316
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.957000710732054
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.034249084249084245
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.07738095238095237
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.027740492170022373
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8483094730429485

whaleyBridgeCollapse2020
  Information Type Precision (positive class, multi-type, macro): 0.20093761462164614
  Information Type Recall (positive class, multi-type, macro): 0.21799363224045618
  Information Type F1 (positive class, multi-type, macro): 0.19516905924327213
  Information Type Accuracy (overall, multi-type, macro): 0.7882783882783884
  High Importance Information Type Precision (positive class, multi-type, macro): 0.2394274357428374
  High Importance Information Type Recall (positive class, multi-type, macro): 0.30040267540267546
  High Importance Information Type F1 (positive class, multi-type, macro): 0.26360703576783034
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.7849206349206349
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.1679463393749108
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.14735730952998258
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.13650793650793652
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.791156462585034

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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      1.00      1.00     12219
Request-GoodsServices        0.00      0.00      0.00         8

         avg / total        1.00      0.99      1.00     12227


Request-SearchAndRescue
                       precision    recall  f1-score   support

        Other Classes       1.00      0.98      0.99     12219
Request-SearchAndRescue      0.00      0.00      0.00         8

          avg / total       1.00      0.98      0.99     12227


Request-InformationWanted
                       precision    recall  f1-score   support

         Other Classes       1.00      0.96      0.98     12199
Request-InformationWanted    0.00      0.07      0.01        28

           avg / total       1.00      0.96      0.98     12227


CallToAction-Volunteer
                       precision    recall  f1-score   support

       Other Classes        1.00      0.99      1.00     12217
CallToAction-Volunteer       0.12      1.00      0.22        10

         avg / total        1.00      0.99      1.00     12227


CallToAction-MovePeople
                       precision    recall  f1-score   support

        Other Classes       1.00      0.99      0.99     12112
```

| | precision | recall | f1-score | support |
|---|---|---|---|---|
| CallToAction-MovePeople | 0.33 | 0.64 | 0.44 | 115 |
| avg / total | 0.99 | 0.98 | 0.99 | 12227 |

Report-FirstPartyObservation

| | precision | recall | f1-score | support |
|---|---|---|---|---|
| Other Classes | 1.00 | 0.96 | 0.98 | 12190 |
| Report-FirstPartyObservation | 0.01 | 0.08 | 0.01 | 37 |
| avg / total | 0.99 | 0.96 | 0.98 | 12227 |

Report-Location

| | precision | recall | f1-score | support |
|---|---|---|---|---|
| Other Classes | 0.72 | 0.92 | 0.81 | 8789 |
| Report-Location | 0.26 | 0.07 | 0.11 | 3438 |
| avg / total | 0.59 | 0.68 | 0.61 | 12227 |

Report-EmergingThreats

| | precision | recall | f1-score | support |
|---|---|---|---|---|
| Other Classes | 0.97 | 0.89 | 0.93 | 11422 |
| Report-EmergingThreats | 0.27 | 0.60 | 0.37 | 805 |
| avg / total | 0.92 | 0.87 | 0.89 | 12227 |

Report-NewSubEvent

| | precision | recall | f1-score | support |
|---|---|---|---|---|
| Other Classes | 0.97 | 0.96 | 0.96 | 11831 |
| Report-NewSubEvent | 0.07 | 0.09 | 0.08 | 396 |
| avg / total | 0.94 | 0.93 | 0.94 | 12227 |

Report-MultimediaShare

| | precision | recall | f1-score | support |
|---|---|---|---|---|
| Other Classes | 0.81 | 0.77 | 0.79 | 9860 |
| Report-MultimediaShare | 0.21 | 0.25 | 0.22 | 2367 |

|            | precision | recall | f1-score | support |
|------------|-----------|--------|----------|---------|
| avg / total | 0.69 | 0.67 | 0.68 | 12227 |

Report-ServiceAvailable

|                         | precision | recall | f1-score | support |
|-------------------------|-----------|--------|----------|---------|
| Other Classes           | 1.00      | 0.95   | 0.97     | 12188   |
| Report-ServiceAvailable | 0.01      | 0.18   | 0.02     | 39      |
| avg / total             | 0.99      | 0.95   | 0.97     | 12227   |

Other-Advice

|               | precision | recall | f1-score | support |
|---------------|-----------|--------|----------|---------|
| Other Classes | 0.99      | 0.96   | 0.98     | 12087   |
| Other-Advice  | 0.14      | 0.54   | 0.23     | 140     |
| avg / total   | 0.98      | 0.96   | 0.97     | 12227   |

Other-Any

|               | precision | recall | f1-score | support |
|---------------|-----------|--------|----------|---------|
| Other Classes | 1.00      | 0.49   | 0.65     | 12227   |
| Other-Any     | 0.00      | 0.00   | 0.00     | 0       |
| avg / total   | 1.00      | 0.49   | 0.65     | 12227   |