```
TREC-IS 2019-B Notebook Evaluator v2.3
Run: xgboost-event (xgboost-event.run)


--------------------------------------------------
EVALUATON: Alertng Performance
Overall performance
--------------------------------------------------
> High Importance Alert Worth:  -0.9942363112391931
> Low Importance Alert Worth:   0.0
> Accumulated Alert Worth:      -0.49711815561959655


--------------------------------------------------
EVALUATON: Information Type Categorization
Overall performance
--------------------------------------------------
> Information Type Precision (positive class, multi-type, macro):      0.26762997107676323
> Information Type Recall (positive class, multi-type, macro):  0.17125230968037375
> Information Type F1 (positive class, multi-type, macro):      0.15167402877099473
> Information Type Accuracy (overall, multi-type, macro):       0.8717688411492447
> High Importance Information Type Precision (positive class, multi-type, macro):     0.2569444444444445
> High Importance Information Type Recall (positive class, multi-type, macro):  0.011547441273508693
> High Importance Information Type F1 (positive class, multi-type, macro):      0.020543684156340693
> High Importance Information Type Accuracy (overall, multi-type, macro):       0.9795651034844118
> Low Importance Information Type Precision (positive class, multi-type, macro):      0.2711918132875361
> Low Importance Information Type Recall (positive class, multi-type, macro):   0.22448726581599543
> Low Importance Information Type F1 (positive class, multi-type, macro):       0.19538414364254605
> Low Importance Information Type Accuracy (overall, multi-type, macro):        0.8358367537041889


--------------------------------------------------
EVALUATON: Information Priority Level
Overall Performance
--------------------------------------------------
> Priority Estimation Error (mean squared error, macro): 0.0724101500309677
> Priority Estimation Error High Importance (mean squared error, macro): 0.175146939584791
> Priority Estimation Error Low Importance (mean squared error, macro): 0.038164553513026576


--------------------------------------------------
LATEX
--------------------------------------------------
xgboost-event & -0.9942 & -0.4971 & 0.0205 & 0.1302 & 0.8718 & 0.1751 & 0.0724 \\
```

```
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-------------------------------------------------
EVALUATON: Information Type Categorization (Multi-type)
Per Event Performance
-------------------------------------------------
floodChoco2019
  Information Type Precision (positive class, multi-type, macro): 0.06957129827631033
  Information Type Recall (positive class, multi-type, macro): 0.10005568658280924
  Information Type F1 (positive class, multi-type, macro): 0.04925816169620017
  Information Type Accuracy (overall, multi-type, macro): 0.8943873179091689
  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): 0.9910025706940874
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.09276173103508044
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.13340758211041231
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.06567754892826688
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8621822336475293

earthquakeCalifornia2014
  Information Type Precision (positive class, multi-type, macro): 0.1411300219745444
  Information Type Recall (positive class, multi-type, macro): 0.13166862765551637
  Information Type F1 (positive class, multi-type, macro): 0.09216933001598802
  Information Type Accuracy (overall, multi-type, macro): 0.891732283464567
  High Importance Information Type Precision (positive class, multi-type, macro): 0.16666666666666666
  High Importance Information Type Recall (positive class, multi-type, macro): 0.016666666666666666
  High Importance Information Type F1 (positive class, multi-type, macro): 0.030303030303030304
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.984251968503937
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.1326178070771703
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.1700026146517996
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.11279142992030725
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8608923884514437

earthquakeBohol2013
  Information Type Precision (positive class, multi-type, macro): 0.22543963580606585
  Information Type Recall (positive class, multi-type, macro): 0.1739014086257149
  Information Type F1 (positive class, multi-type, macro): 0.16342885534507223
  Information Type Accuracy (overall, multi-type, macro): 0.909666128163705
  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): 0.9929994614970382
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.3005861810747545
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.23186854483428654
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.21790514046009632
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8818883503859271

hurricaneFlorence2018
  Information Type Precision (positive class, multi-type, macro): 0.24083400769956345
  Information Type Recall (positive class, multi-type, macro): 0.1624386265266525
  Information Type F1 (positive class, multi-type, macro): 0.12752502223550333
  Information Type Accuracy (overall, multi-type, macro): 0.8770341469921301
  High Importance Information Type Precision (positive class, multi-type, macro): 0.16666666666666666
  High Importance Information Type Recall (positive class, multi-type, macro): 0.0016501650165016502
  High Importance Information Type F1 (positive class, multi-type, macro): 0.0032679738562091504
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.9762571695344805
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.2655564547105291
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.21603478036336946
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.16894403836193472
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8439598061446801

shootingDallas2017
  Information Type Precision (positive class, multi-type, macro): 0.15699528992495904
  Information Type Recall (positive class, multi-type, macro): 0.1218613992238568
  Information Type F1 (positive class, multi-type, macro): 0.06610025212143479
  Information Type Accuracy (overall, multi-type, macro): 0.8697500000000001
  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): 0.9980833333333333
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.20932705323327871
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.16248186563180908
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.0881336694952464
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8269722222222221

fireYMM2016
  Information Type Precision (positive class, multi-type, macro): 0.21573913356721683
  Information Type Recall (positive class, multi-type, macro): 0.1681463466655445
  Information Type F1 (positive class, multi-type, macro): 0.1302194151775624
  Information Type Accuracy (overall, multi-type, macro): 0.8498125000000001
```

High Importance Information Type Precision (positive class, multi-type, macro): 0.2708333333333333
High Importance Information Type Recall (positive class, multi-type, macro): 0.014822046090196675
High Importance Information Type F1 (positive class, multi-type, macro): 0.025167627635438793
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9584999999999999
Low Importance Information Type Precision (positive class, multi-type, macro): 0.19737440031184464
Low Importance Information Type Recall (positive class, multi-type, macro): 0.21925444685732712
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1652366776916036
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8135833333333333

```
TREC-IS 2019-B Notebook Evaluator v2.3
Run: xgboost-event (xgboost-event.run)


-------------------------------------------------
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       7612
Request-GoodsServices      0.00      0.00       0.00         22

           micro avg       1.00      1.00       1.00       7634
           macro avg       0.50      0.50       0.50       7634
        weighted avg       0.99      1.00       1.00       7634


Request-SearchAndRescue
                      precision    recall   f1-score    support

        Other Classes       1.00      1.00       1.00       7624
Request-SearchAndRescue      0.00      0.00       0.00         10

            micro avg       1.00      1.00       1.00       7634
            macro avg       0.50      0.50       0.50       7634
         weighted avg       1.00      1.00       1.00       7634


Request-InformationWanted
                       precision    recall   f1-score    support

         Other Classes       0.99      1.00       1.00       7563
Request-InformationWanted     0.00      0.00       0.00         71

             micro avg       0.99      0.99       0.99       7634
             macro avg       0.50      0.50       0.50       7634
          weighted avg       0.98      0.99       0.99       7634


CallToAction-Volunteer
                      precision    recall   f1-score    support

        Other Classes       1.00      1.00       1.00       7611
CallToAction-Volunteer      0.00      0.00       0.00         23

            micro avg       1.00      1.00       1.00       7634
            macro avg       0.50      0.50       0.50       7634
         weighted avg       0.99      1.00       1.00       7634


CallToAction-Donations
                      precision    recall   f1-score    support

        Other Classes       0.99      1.00       0.99       7556
CallToAction-Donations      0.40      0.32       0.36         78

            micro avg       0.99      0.99       0.99       7634
            macro avg       0.70      0.66       0.68       7634
         weighted avg       0.99      0.99       0.99       7634


CallToAction-MovePeople
                      precision    recall   f1-score    support

        Other Classes       0.99      1.00       0.99       7526
CallToAction-MovePeople     1.00      0.01       0.02        108

            micro avg       0.99      0.99       0.99       7634
            macro avg       0.99      0.50       0.51       7634
         weighted avg       0.99      0.99       0.98       7634


Report-FirstPartyObservation
                          precision    recall   f1-score    support

            Other Classes       0.95      0.81       0.87       7150
Report-FirstPartyObservation    0.10      0.32       0.15        484

                micro avg       0.77      0.77       0.77       7634
                macro avg       0.52      0.56       0.51       7634
             weighted avg       0.89      0.77       0.82       7634
```

```
Report-ThirdPartyObservation
                              precision     recall   f1-score     support

                Other Classes      0.97       0.79       0.87        7317
Report-ThirdPartyObservation       0.09       0.46       0.14         317

                    micro avg      0.77       0.77       0.77        7634
                    macro avg      0.53       0.62       0.51        7634
                 weighted avg      0.93       0.77       0.84        7634


Report-Weather
                 precision     recall   f1-score     support

  Other Classes      0.97       0.98       0.98        7334
 Report-Weather      0.47       0.35       0.40         300

      micro avg      0.96       0.96       0.96        7634
      macro avg      0.72       0.67       0.69        7634
   weighted avg      0.95       0.96       0.96        7634


Report-EmergingThreats
                        precision     recall   f1-score     support

         Other Classes      0.94       1.00       0.97        7168
Report-EmergingThreats      0.25       0.01       0.02         466

             micro avg      0.94       0.94       0.94        7634
             macro avg      0.59       0.50       0.49        7634
          weighted avg      0.90       0.94       0.91        7634


Report-NewSubEvent
                   precision     recall   f1-score     support

     Other Classes      0.98       1.00       0.99        7492
Report-NewSubEvent      0.29       0.05       0.08         142

         micro avg      0.98       0.98       0.98        7634
         macro avg      0.64       0.52       0.54        7634
      weighted avg      0.97       0.98       0.97        7634


Report-MultimediaShare
                        precision     recall   f1-score     support

         Other Classes      0.88       0.88       0.88        6034
Report-MultimediaShare      0.53       0.53       0.53        1600

             micro avg      0.80       0.80       0.80        7634
             macro avg      0.70       0.70       0.70        7634
          weighted avg      0.80       0.80       0.80        7634


Report-ServiceAvailable
                         precision     recall   f1-score     support

          Other Classes      0.98       1.00       0.99        7484
Report-ServiceAvailable      0.00       0.00       0.00         150

              micro avg      0.98       0.98       0.98        7634
              macro avg      0.49       0.50       0.49        7634
           weighted avg      0.96       0.98       0.97        7634


Report-Factoid
                 precision     recall   f1-score     support

  Other Classes      0.89       0.97       0.93        6625
 Report-Factoid      0.49       0.21       0.29        1009

      micro avg      0.87       0.87       0.87        7634
      macro avg      0.69       0.59       0.61        7634
   weighted avg      0.84       0.87       0.84        7634


Report-Official
                 precision     recall   f1-score     support
```

```
                   precision   recall   f1-score   support

Other Classes        0.97       1.00      0.98       7404
Report-Official      0.17       0.02      0.03        230

    micro avg        0.97       0.97      0.97       7634
    macro avg        0.57       0.51      0.51       7634
 weighted avg        0.95       0.97      0.95       7634
```

Report-News
```
                   precision   recall   f1-score   support

Other Classes        0.88       0.75      0.81       6158
  Report-News        0.36       0.59      0.45       1476

    micro avg        0.72       0.72      0.72       7634
    macro avg        0.62       0.67      0.63       7634
 weighted avg        0.78       0.72      0.74       7634
```

Report-CleanUp
```
                   precision   recall   f1-score   support

Other Classes        0.99       1.00      1.00       7560
Report-CleanUp       0.00       0.00      0.00         74

    micro avg        0.99       0.99      0.99       7634
    macro avg        0.50       0.50      0.50       7634
 weighted avg        0.98       0.99      0.99       7634
```

Report-Hashtags
```
                   precision   recall   f1-score   support

Other Classes        0.51       0.94      0.66       3789
Report-Hashtags      0.63       0.11      0.18       3845

    micro avg        0.52       0.52      0.52       7634
    macro avg        0.57       0.52      0.42       7634
 weighted avg        0.57       0.52      0.42       7634
```

Report-OriginalEvent
```
                       precision   recall   f1-score   support

    Other Classes        0.89       0.99      0.94       6750
Report-OriginalEvent     0.41       0.04      0.07        884

        micro avg        0.88       0.88      0.88       7634
        macro avg        0.65       0.52      0.50       7634
     weighted avg        0.83       0.88      0.84       7634
```

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

           Other Classes        0.96       0.76      0.85       7364
Other-ContextualInformation     0.03       0.17      0.05        270

                micro avg        0.74       0.74      0.74       7634
                macro avg        0.49       0.47      0.45       7634
             weighted avg        0.93       0.74      0.82       7634
```

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

Other Classes        0.94       0.99      0.97       7183
 Other-Advice        0.29       0.07      0.11        451

    micro avg        0.94       0.94      0.94       7634
    macro avg        0.62       0.53      0.54       7634
 weighted avg        0.91       0.94      0.92       7634
```

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

Other Classes        0.88       0.75      0.81       5844
Other-Sentiment      0.45       0.65      0.53       1790

    micro avg        0.73       0.73      0.73       7634
    macro avg        0.66       0.70      0.67       7634
```

	precision	recall	f1-score	support
weighted avg	0.78	0.73	0.75	7634

Other-Discussion

	precision	recall	f1-score	support
Other Classes	0.92	0.82	0.87	7064
Other-Discussion	0.05	0.11	0.06	570
micro avg	0.77	0.77	0.77	7634
macro avg	0.48	0.46	0.47	7634
weighted avg	0.85	0.77	0.81	7634

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.66	0.93	0.77	5013
Other-Irrelevant	0.41	0.09	0.15	2621
micro avg	0.64	0.64	0.64	7634
macro avg	0.53	0.51	0.46	7634
weighted avg	0.57	0.64	0.56	7634

Other Classes | 0.92 | 0.82 | 0.87 | 7064