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


--------------------------------------------------
EVALUATON: Alertng Performance
Overall performance
--------------------------------------------------
> High Importance Alert Worth:  -0.9792507204610952
> Low Importance Alert Worth:   -0.0007381318579755739
> Accumulated Alert Worth:      -0.48999442615953537


--------------------------------------------------
EVALUATON: Information Type Categorization
Overall performance
--------------------------------------------------
> Information Type Precision (positive class, multi-type, macro):      0.30356262879795276
> Information Type Recall (positive class, multi-type, macro):  0.15436793863114776
> Information Type F1 (positive class, multi-type, macro):      0.17165930835538887
> Information Type Accuracy (overall, multi-type, macro):       0.9017061828661254
> High Importance Information Type Precision (positive class, multi-type, macro):      0.06966966966966967
> High Importance Information Type Recall (positive class, multi-type, macro):  0.005760610395803529
> High Importance Information Type F1 (positive class, multi-type, macro):      0.010635178826033697
> High Importance Information Type Accuracy (overall, multi-type, macro):       0.9798925858003668
> Low Importance Information Type Precision (positive class, multi-type, macro):        0.38152694850738045
> Low Importance Information Type Recall (positive class, multi-type, macro):   0.20390371470959584
> Low Importance Information Type F1 (positive class, multi-type, macro):       0.225533401819850724
> Low Importance Information Type Accuracy (overall, multi-type, macro):        0.8756440485547112


--------------------------------------------------
EVALUATON: Information Priority Level
Overall Performance
--------------------------------------------------
> Priority Estimation Error (mean squared error, macro): 0.07324542013501252
> Priority Estimation Error High Importance (mean squared error, macro): 0.1816835870005918
> Priority Estimation Error Low Importance (mean squared error, macro): 0.03709936451315274


--------------------------------------------------
LATEX
--------------------------------------------------
xgboost-extra & -0.9793 & -0.4900 & 0.0106 & 0.1751 & 0.9017 & 0.1817 & 0.0732 \\
```

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


------------------------------------------------
EVALUATON: Information Type Categorization (Multi-type)
Per Event Performance
------------------------------------------------
floodChoco2019
  Information Type Precision (positive class, multi-type, macro): 0.06184163059163059
  Information Type Recall (positive class, multi-type, macro): 0.06243427366658497
  Information Type F1 (positive class, multi-type, macro): 0.027424618073473035
  Information Type Accuracy (overall, multi-type, macro): 0.9161311053984577
  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): 0.9931448157669237
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.08245550745550746
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.0832456982221133
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.03656615743129738
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.890459868608969

earthquakeCalifornia2014
  Information Type Precision (positive class, multi-type, macro): 0.13171378968253966
  Information Type Recall (positive class, multi-type, macro): 0.10261051207631648
  Information Type F1 (positive class, multi-type, macro): 0.08746112921958711
  Information Type Accuracy (overall, multi-type, macro): 0.9107611548556429
  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): 0.9829396325459318
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.17561838624338622
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.1368140161017553
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.11661483895944949
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8867016622922136

earthquakeBohol2013
  Information Type Precision (positive class, multi-type, macro): 0.26663692970666103
  Information Type Recall (positive class, multi-type, macro): 0.15659257431658238
  Information Type F1 (positive class, multi-type, macro): 0.1781360070883885
  Information Type Accuracy (overall, multi-type, macro): 0.9141087775982766
  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): 0.994614970382337
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.355515906275548
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.2087900990887765
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.23751467611785135
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8872733800035898

hurricaneFlorence2018
  Information Type Precision (positive class, multi-type, macro): 0.2573760270913798
  Information Type Recall (positive class, multi-type, macro): 0.14678011591776632
  Information Type F1 (positive class, multi-type, macro): 0.15174369957631776
  Information Type Accuracy (overall, multi-type, macro): 0.9048285981059091
  High Importance Information Type Precision (positive class, multi-type, macro): 0.13505747126436782
  High Importance Information Type Recall (positive class, multi-type, macro): 0.009298401750287387
  High Importance Information Type F1 (positive class, multi-type, macro): 0.016500016650016652
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.9755902360944378
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.2981488790337171
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.19260735397359266
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.19677462055175146
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8812413854430661

shootingDallas2017
  Information Type Precision (positive class, multi-type, macro): 0.15979705662126584
  Information Type Recall (positive class, multi-type, macro): 0.1501080722242065
  Information Type F1 (positive class, multi-type, macro): 0.11362173167997869
  Information Type Accuracy (overall, multi-type, macro): 0.912
  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): 0.21306274216168777
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.200144096298942
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.15149564223997158
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8833055555555556

fireYMM2016
  Information Type Precision (positive class, multi-type, macro): 0.37319621185894564
  Information Type Recall (positive class, multi-type, macro): 0.15624354959112033
  Information Type F1 (positive class, multi-type, macro): 0.17508393760451754
  Information Type Accuracy (overall, multi-type, macro): 0.8802916666666666
```

```
High Importance Information Type Precision (positive class, multi-type, macro): 0.16666666666666666
High Importance Information Type Recall (positive class, multi-type, macro): 0.0029368575624082235
High Importance Information Type F1 (positive class, multi-type, macro): 0.005772005772005773
High Importance Information Type Accuracy (overall, multi-type, macro): 0.95975
Low Importance Information Type Precision (positive class, multi-type, macro): 0.44203939358970534
Low Importance Information Type Recall (positive class, multi-type, macro): 0.20734578026735773
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2315212482153548
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8538055555555556
```

```
TREC-IS 2019-B Notebook Evaluator v2.3
Run: xgboost-extra (xgboost-extra.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       7625
Request-SearchAndRescue    0.00       0.00      0.00          9

            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       7610
CallToAction-Volunteer     0.33       0.04      0.07         24

            micro avg      1.00       1.00      1.00       7634
            macro avg      0.67       0.52      0.54       7634
         weighted avg      0.99       1.00      1.00       7634


CallToAction-Donations
                        precision    recall  f1-score   support

        Other Classes      0.99       1.00      1.00       7556
CallToAction-Donations     0.80       0.41      0.54         78

            micro avg      0.99       0.99      0.99       7634
            macro avg      0.90       0.70      0.77       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       7527
CallToAction-MovePeople    0.00       0.00      0.00        107

            micro avg      0.99       0.99      0.99       7634
            macro avg      0.49       0.50      0.50       7634
         weighted avg      0.97       0.99      0.98       7634


Report-FirstPartyObservation
                              precision    recall  f1-score   support

             Other Classes      0.94       0.92      0.93       7150
Report-FirstPartyObservation    0.10       0.14      0.12        484

                micro avg       0.87       0.87      0.87       7634
                macro avg       0.52       0.53      0.52       7634
             weighted avg       0.89       0.87      0.88       7634
```

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

           Other Classes      0.96       0.97      0.96       7317
Report-ThirdPartyObservation  0.12       0.11      0.11        317

                micro avg     0.93       0.93      0.93       7634
                macro avg     0.54       0.54      0.54       7634
             weighted avg     0.93       0.93      0.93       7634


Report-Weather
              precision    recall   f1-score    support

 Other Classes     0.97       0.99      0.98       7334
Report-Weather     0.55       0.18      0.27        300

    micro avg      0.96       0.96      0.96       7634
    macro avg      0.76       0.59      0.62       7634
 weighted avg      0.95       0.96      0.95       7634


Report-EmergingThreats
                      precision    recall   f1-score    support

       Other Classes     0.94       1.00      0.97       7168
Report-EmergingThreats    0.35       0.03      0.05        466

           micro avg     0.94       0.94      0.94       7634
           macro avg     0.65       0.51      0.51       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    0.00       0.00      0.00        142

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


Report-MultimediaShare
                      precision    recall   f1-score    support

       Other Classes     0.89       0.88      0.89       6034
Report-MultimediaShare    0.57       0.59      0.58       1600

           micro avg     0.82       0.82      0.82       7634
           macro avg     0.73       0.74      0.73       7634
        weighted avg     0.82       0.82      0.82       7634


Report-ServiceAvailable
                       precision    recall   f1-score    support

        Other Classes     0.98       1.00      0.99       7484
Report-ServiceAvailable    0.07       0.01      0.01        150

            micro avg     0.98       0.98      0.98       7634
            macro avg     0.52       0.50      0.50       7634
         weighted avg     0.96       0.98      0.97       7634


Report-Factoid
              precision    recall   f1-score    support

 Other Classes     0.88       0.99      0.93       6625
Report-Factoid     0.68       0.16      0.25       1009

    micro avg      0.88       0.88      0.88       7634
    macro avg      0.78       0.57      0.59       7634
 weighted avg      0.86       0.88      0.84       7634


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

```
          Other Classes        0.97      1.00      0.98      7404
        Report-Official        0.33      0.02      0.03       230

              micro avg        0.97      0.97      0.97      7634
              macro avg        0.65      0.51      0.51      7634
           weighted avg        0.95      0.97      0.96      7634
```

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

          Other Classes        0.89      0.85      0.87      6158
            Report-News        0.46      0.55      0.50      1476

              micro avg        0.79      0.79      0.79      7634
              macro avg        0.67      0.70      0.68      7634
           weighted avg        0.80      0.79      0.79      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        0.54      0.89      0.67      3789
        Report-Hashtags        0.70      0.27      0.39      3845

              micro avg        0.57      0.57      0.57      7634
              macro avg        0.62      0.58      0.53      7634
           weighted avg        0.62      0.57      0.53      7634
```

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

          Other Classes        0.89      1.00      0.94      6750
   Report-OriginalEvent        0.58      0.02      0.03       884

              micro avg        0.88      0.88      0.88      7634
              macro avg        0.73      0.51      0.49      7634
           weighted avg        0.85      0.88      0.83      7634
```

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

               Other Classes     0.96      0.87      0.92      7364
 Other-ContextualInformation     0.03      0.11      0.05       270

                   micro avg     0.85      0.85      0.85      7634
                   macro avg     0.50      0.49      0.48      7634
                weighted avg     0.93      0.85      0.89      7634
```

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

          Other Classes        0.95      0.99      0.97      7183
           Other-Advice        0.39      0.14      0.20       451

              micro avg        0.94      0.94      0.94      7634
              macro avg        0.67      0.56      0.58      7634
           weighted avg        0.91      0.94      0.92      7634
```

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

          Other Classes        0.91      0.75      0.82      5844
        Other-Sentiment        0.48      0.75      0.59      1790

              micro avg        0.75      0.75      0.75      7634
              macro avg        0.69      0.75      0.70      7634
```

	precision	recall	f1-score	support
weighted avg	0.81	0.75	0.77	7634

Other-Discussion

	precision	recall	f1-score	support
Other Classes	0.92	0.96	0.94	7064
Other-Discussion	0.06	0.03	0.04	570
micro avg	0.89	0.89	0.89	7634
macro avg	0.49	0.50	0.49	7634
weighted avg	0.86	0.89	0.88	7634

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.69	0.96	0.80	5013
Other-Irrelevant	0.68	0.18	0.28	2621
micro avg	0.69	0.69	0.69	7634
macro avg	0.69	0.57	0.54	7634
weighted avg	0.69	0.69	0.62	7634

	precision	recall	f1-score	support
Other Classes	0.92	0.96	0.94	7064