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TREC-IS 2019-B Notebook Evaluator v2.3
Run: UPB-BERT (UPB-BERT)


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EVALUATON: Alertng Performance
Overall performance
--------------------------------------------------
> High Importance Alert Worth:  -0.9545107033639142
> Low Importance Alert Worth:   -0.0012452736997125929
> Accumulated Alert Worth:      -0.4778779885318134


--------------------------------------------------
EVALUATON: Information Type Categorization
Overall performance
--------------------------------------------------
> Information Type Precision (positive class, multi-type, macro):      0.25467861808117187
> Information Type Recall (positive class, multi-type, macro):  0.32630267739333574
> Information Type F1 (positive class, multi-type, macro):      0.23438259899736413
> Information Type Accuracy (overall, multi-type, macro):       0.8139034661483642
> High Importance Information Type Precision (positive class, multi-type, macro):     0.13862463656064994
> High Importance Information Type Recall (positive class, multi-type, macro):  0.17132009945041063
> High Importance Information Type F1 (positive class, multi-type, macro):      0.13376787519658898
> High Importance Information Type Accuracy (overall, multi-type, macro):       0.9537486952452939
> Low Importance Information Type Precision (positive class, multi-type, macro):      0.2913272438244946
> Low Importance Information Type Recall (positive class, multi-type, macro):   0.3752445441121542
> Low Importance Information Type F1 (positive class, multi-type, macro):       0.26615566967129317
> Low Importance Information Type Accuracy (overall, multi-type, macro):        0.7697418148545967


--------------------------------------------------
EVALUATON: Information Priority Level
Overall Performance
--------------------------------------------------
> Priority Estimation Error (mean squared error, macro): 0.09378857754528555
> Priority Estimation Error High Importance (mean squared error, macro): 0.1558485959794392
> Priority Estimation Error Low Importance (mean squared error, macro): 0.07419067698713178


--------------------------------------------------
LATEX
--------------------------------------------------
UPB-BERT & -0.9545 & -0.4779 & 0.1338 & 0.1481 & 0.8139 & 0.1558 & 0.0938 \\
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EVALUATON: Information Type Categorization (Multi-type)
Per Event Performance
-------------------------------------------------
albertaWildfires2019
  Information Type Precision (positive class, multi-type, macro): 0.2136271949747509
  Information Type Recall (positive class, multi-type, macro): 0.31398781713089374
  Information Type F1 (positive class, multi-type, macro): 0.19818700005467133
  Information Type Accuracy (overall, multi-type, macro): 0.7941399999999998
  High Importance Information Type Precision (positive class, multi-type, macro): 0.11335724887318638
  High Importance Information Type Recall (positive class, multi-type, macro): 0.18667851870777266
  High Importance Information Type F1 (positive class, multi-type, macro): 0.09801898250683623
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.9535833333333333
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.24529138848050808
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.3541907534750372
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.22981900559609295
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7437894736842106

cycloneKenneth2019
  Information Type Precision (positive class, multi-type, macro): 0.22816110415063004
  Information Type Recall (positive class, multi-type, macro): 0.3077775562946976
  Information Type F1 (positive class, multi-type, macro): 0.2242461006802548
  Information Type Accuracy (overall, multi-type, macro): 0.798919459729865
  High Importance Information Type Precision (positive class, multi-type, macro): 0.20356511362608923
  High Importance Information Type Recall (positive class, multi-type, macro): 0.16242507042489898
  High Importance Information Type F1 (positive class, multi-type, macro): 0.16648730599130512
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.931882607970652
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.23592825905311662
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.353678341306213
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.2424857200557126
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.756931097127511

philippinesEarthquake2019
  Information Type Precision (positive class, multi-type, macro): 0.1784998608209908
  Information Type Recall (positive class, multi-type, macro): 0.33914561099107926
  Information Type F1 (positive class, multi-type, macro): 0.18780523827672677
  Information Type Accuracy (overall, multi-type, macro): 0.840802005012531
  High Importance Information Type Precision (positive class, multi-type, macro): 0.08994240094869026
  High Importance Information Type Recall (positive class, multi-type, macro): 0.20753119429590017
  High Importance Information Type F1 (positive class, multi-type, macro): 0.12394888008238152
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.939014202172097
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.20646537446487515
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.38070805836850424
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.2079704040223095
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8097876269621422

coloradoStemShooting2019
  Information Type Precision (positive class, multi-type, macro): 0.139708517865564
  Information Type Recall (positive class, multi-type, macro): 0.22710109857020697
  Information Type F1 (positive class, multi-type, macro): 0.112702998593422
  Information Type Accuracy (overall, multi-type, macro): 0.8260532687651332
  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): 0.9942157654022061
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.18382669719153162
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.29881723496079865
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.14829341920187106
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7729493224586892

southAfricaFloods2019
  Information Type Precision (positive class, multi-type, macro): 0.21151467229069632
  Information Type Recall (positive class, multi-type, macro): 0.33803362399473225
  Information Type F1 (positive class, multi-type, macro): 0.21573498711129452
  Information Type Accuracy (overall, multi-type, macro): 0.8389918458117124
  High Importance Information Type Precision (positive class, multi-type, macro): 0.09395898966451115
  High Importance Information Type Recall (positive class, multi-type, macro): 0.09715849633743862
  High Importance Information Type F1 (positive class, multi-type, macro): 0.06884057971014494
  High Importance Information Type Accuracy (overall, multi-type, macro): 0.952310353348159
  Low Importance Information Type Precision (positive class, multi-type, macro): 0.24863751943580736
  Low Importance Information Type Recall (positive class, multi-type, macro): 0.4140994537812459
  Low Importance Information Type F1 (positive class, multi-type, macro): 0.2621226947116575
  Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8032070539580975

sandiegoSynagogueShooting2019
  Information Type Precision (positive class, multi-type, macro): 0.2795999816843282
  Information Type Recall (positive class, multi-type, macro): 0.19154101672219043
  Information Type F1 (positive class, multi-type, macro): 0.14814291795554235
  Information Type Accuracy (overall, multi-type, macro): 0.7651840942562593
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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): 0.9909180166912126
Low Importance Information Type Precision (positive class, multi-type, macro): 0.36789471274253716
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2520276535818295
Low Importance Information Type F1 (positive class, multi-type, macro): 0.19492489204676627
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.6938996976978529
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Run: UPB-BERT (UPB-BERT)

--------------------------------------------------
EVALUATON: Information Type Categorization (Multi-type)
Per Information Type Performance
--------------------------------------------------
Request-GoodsServices
                       precision    recall  f1-score   support

        Other Classes       1.00      0.99      0.99      9223
Request-GoodsServices       0.06      0.18      0.08        38

            micro avg       0.98      0.98      0.98      9261
            macro avg       0.53      0.59      0.54      9261
         weighted avg       0.99      0.98      0.99      9261


Request-SearchAndRescue
                       precision    recall  f1-score   support

        Other Classes       1.00      0.99      0.99      9252
Request-SearchAndRescue     0.01      0.11      0.02         9

            micro avg       0.99      0.99      0.99      9261
            macro avg       0.50      0.55      0.51      9261
         weighted avg       1.00      0.99      0.99      9261


Request-InformationWanted
                       precision    recall  f1-score   support

        Other Classes       1.00      1.00      1.00      9228
Request-InformationWanted   0.18      0.27      0.22        33

            micro avg       0.99      0.99      0.99      9261
            macro avg       0.59      0.63      0.61      9261
         weighted avg       0.99      0.99      0.99      9261


CallToAction-Volunteer
                       precision    recall  f1-score   support

        Other Classes       1.00      0.99      0.99      9237
CallToAction-Volunteer      0.03      0.12      0.05        24

            micro avg       0.99      0.99      0.99      9261
            macro avg       0.51      0.56      0.52      9261
         weighted avg       1.00      0.99      0.99      9261


CallToAction-Donations
                       precision    recall  f1-score   support

        Other Classes       0.99      0.98      0.99      9155
CallToAction-Donations      0.18      0.35      0.24       106

            micro avg       0.97      0.97      0.97      9261
            macro avg       0.59      0.67      0.61      9261
         weighted avg       0.98      0.97      0.98      9261


CallToAction-MovePeople
                       precision    recall  f1-score   support

        Other Classes       0.99      1.00      0.99      9158
CallToAction-MovePeople     0.17      0.06      0.09       103

            micro avg       0.99      0.99      0.99      9261
            macro avg       0.58      0.53      0.54      9261
         weighted avg       0.98      0.99      0.98      9261


Report-FirstPartyObservation
                         precision    recall  f1-score   support

          Other Classes       0.98      0.76      0.85      8942
Report-FirstPartyObservation 0.08      0.60      0.14       319

              micro avg       0.75      0.75      0.75      9261
              macro avg       0.53      0.68      0.50      9261
           weighted avg       0.95      0.75      0.83      9261
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Report-ThirdPartyObservation
                              precision    recall   f1-score    support
             Other Classes       0.82        0.60      0.69        7785
  Report-ThirdPartyObservation   0.12        0.30      0.17        1476

                  micro avg      0.55        0.55      0.55        9261
                  macro avg      0.47        0.45      0.43        9261
               weighted avg      0.71        0.55      0.61        9261


Report-Weather
                 precision    recall   f1-score    support

 Other Classes      0.92        0.92      0.92        8123
Report-Weather      0.43        0.45      0.44        1138

    micro avg       0.86        0.86      0.86        9261
    macro avg       0.68        0.68      0.68        9261
 weighted avg       0.86        0.86      0.86        9261


Report-Location
                 precision    recall   f1-score    support

 Other Classes      0.47        1.00      0.64        4351
Report-Location     0.87        0.00      0.01        4910

    micro avg       0.47        0.47      0.47        9261
    macro avg       0.67        0.50      0.32        9261
 weighted avg       0.68        0.47      0.30        9261


Report-EmergingThreats
                        precision    recall   f1-score    support

        Other Classes      0.95        0.91      0.93        8621
 Report-EmergingThreats    0.20        0.30      0.24         640

            micro avg      0.87        0.87      0.87        9261
            macro avg      0.57        0.61      0.58        9261
         weighted avg      0.89        0.87      0.88        9261


Report-NewSubEvent
                    precision    recall   f1-score    support

    Other Classes      0.98        0.96      0.97        9051
Report-NewSubEvent     0.07        0.12      0.09         210

       micro avg       0.94        0.94      0.94        9261
       macro avg       0.52        0.54      0.53        9261
    weighted avg       0.96        0.94      0.95        9261


Report-MultimediaShare
                        precision    recall   f1-score    support

        Other Classes      0.68        0.66      0.67        5719
Report-MultimediaShare     0.47        0.50      0.48        3542

           micro avg       0.60        0.60      0.60        9261
           macro avg       0.58        0.58      0.58        9261
        weighted avg       0.60        0.60      0.60        9261


Report-ServiceAvailable
                         precision    recall   f1-score    support

         Other Classes      0.97        0.98      0.98        8916
 Report-ServiceAvailable    0.33        0.25      0.28         345

            micro avg       0.95        0.95      0.95        9261
            macro avg       0.65        0.62      0.63        9261
         weighted avg       0.95        0.95      0.95        9261


Report-Factoid
                 precision    recall   f1-score    support
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Other Classes          0.74      0.87      0.80      6019
Report-Factoid         0.63      0.42      0.50      3242

    micro avg          0.71      0.71      0.71      9261
    macro avg          0.68      0.64      0.65      9261
 weighted avg          0.70      0.71      0.69      9261


Report-Official
                    precision    recall  f1-score   support

Other Classes          0.93      0.94      0.93      8486
Report-Official        0.25      0.22      0.24       775

    micro avg          0.88      0.88      0.88      9261
    macro avg          0.59      0.58      0.59      9261
 weighted avg          0.87      0.88      0.88      9261


Report-News
                    precision    recall  f1-score   support

Other Classes          0.77      0.54      0.63      6421
  Report-News          0.38      0.63      0.47      2840

    micro avg          0.57      0.57      0.57      9261
    macro avg          0.57      0.59      0.55      9261
 weighted avg          0.65      0.57      0.59      9261


Report-CleanUp
                    precision    recall  f1-score   support

Other Classes          0.99      0.99      0.99      9201
Report-CleanUp         0.13      0.17      0.15        60

    micro avg          0.99      0.99      0.99      9261
    macro avg          0.56      0.58      0.57      9261
 weighted avg          0.99      0.99      0.99      9261


Report-Hashtags
                    precision    recall  f1-score   support

Other Classes          0.78      0.85      0.82      6757
Report-Hashtags        0.47      0.36      0.41      2504

    micro avg          0.72      0.72      0.72      9261
    macro avg          0.63      0.60      0.61      9261
 weighted avg          0.70      0.72      0.70      9261


Report-OriginalEvent
                        precision    recall  f1-score   support

     Other Classes          0.93      0.94      0.93      8321
Report-OriginalEvent        0.39      0.33      0.36       940

           micro avg        0.88      0.88      0.88      9261
           macro avg        0.66      0.64      0.65      9261
        weighted avg        0.87      0.88      0.88      9261


Other-ContextualInformation
                              precision    recall  f1-score   support

             Other Classes        0.97      0.76      0.85      9014
Other-ContextualInformation       0.03      0.23      0.05       247

                 micro avg        0.74      0.74      0.74      9261
                 macro avg        0.50      0.50      0.45      9261
              weighted avg        0.95      0.74      0.83      9261


Other-Advice
                    precision    recall  f1-score   support

Other Classes          0.98      0.87      0.93      8946
 Other-Advice          0.14      0.57      0.22       315

    micro avg          0.86      0.86      0.86      9261
    macro avg          0.56      0.72      0.57      9261
```

weighted avg	0.95	0.86	0.90	9261

Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.97	0.70	0.82	8481
Other-Sentiment	0.19	0.76	0.31	780
micro avg	0.71	0.71	0.71	9261
macro avg	0.58	0.73	0.56	9261
weighted avg	0.90	0.71	0.77	9261

Other-Discussion

	precision	recall	f1-score	support
Other Classes	0.95	0.73	0.83	8805
Other-Discussion	0.06	0.33	0.10	456
micro avg	0.71	0.71	0.71	9261
macro avg	0.51	0.53	0.47	9261
weighted avg	0.91	0.71	0.79	9261

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.76	0.74	0.75	6224
Other-Irrelevant	0.49	0.51	0.50	3037
micro avg	0.67	0.67	0.67	9261
macro avg	0.62	0.63	0.62	9261
weighted avg	0.67	0.67	0.67	9261