

TREC-IS 2019-B Notebook Evaluator v2.3
Run: IRIT_run_rf_gb_binary (IRIT_run_rf_gb_binary.run)

EVALUATOR: Alertng Performance
Overall performance

> High Importance Alert Worth: -0.6982708933717573
> Low Importance Alert Worth: -0.033544058099775606
> Accumulated Alert Worth: -0.36590747573576643

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.16768809648267358
> Information Type Recall (positive class, multi-type, macro): 0.1593092595602628
> Information Type F1 (positive class, multi-type, macro): 0.15131211636529104
> Information Type Accuracy (overall, multi-type, macro): 0.8833507990568509
> High Importance Information Type Precision (positive class, multi-type, macro): 0.027802606294903335
> High Importance Information Type Recall (positive class, multi-type, macro): 0.01819507411661193
> High Importance Information Type F1 (positive class, multi-type, macro): 0.02016911608354097
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9698497947777486
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.21431659321193036
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.20634732137481307
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.19502644979254105
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8545178004832183

EVALUATOR: Information Priority Level
Overall Performance

> Priority Estimation Error (mean squared error, macro): 0.06936322260616526
> Priority Estimation Error High Importance (mean squared error, macro): 0.07505905966421857
> Priority Estimation Error Low Importance (mean squared error, macro): 0.06746461025348081

LATEX

IRIT_run_rf_gb_binary & -0.6983 & -0.3659 & 0.0202 & 0.1716 & 0.8834 & 0.0751 & 0.0694 \\

EVALUATOR: Information Type Categorization (Multi-type)
Per Event Performance

floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.05816927404739052
Information Type Recall (positive class, multi-type, macro): 0.08632973093468377
Information Type F1 (positive class, multi-type, macro): 0.03338966045580653
Information Type Accuracy (overall, multi-type, macro): 0.8738217652099401
High Importance Information Type Precision (positive class, multi-type, macro): 0.015151515151515152
High Importance Information Type Recall (positive class, multi-type, macro): 0.027777777777777776
High Importance Information Type F1 (positive class, multi-type, macro): 0.019607843137254905
High Importance Information Type Accuracy (overall, multi-type, macro): 0.987146529562982
Low Importance Information Type Precision (positive class, multi-type, macro): 0.07250852701268232
Low Importance Information Type Recall (positive class, multi-type, macro): 0.10584704865365242
Low Importance Information Type F1 (positive class, multi-type, macro): 0.037983599561990405
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.836046843758926

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.11108833331143064
Information Type Recall (positive class, multi-type, macro): 0.134653197715742
Information Type F1 (positive class, multi-type, macro): 0.09137971493717141
Information Type Accuracy (overall, multi-type, macro): 0.8625328083989502
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): 0.9619422572178479
Low Importance Information Type Precision (positive class, multi-type, macro): 0.14811777774857418
Low Importance Information Type Recall (positive class, multi-type, macro): 0.17953759695432267
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12183961991622855
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8293963254593177

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.1880748917286252
Information Type Recall (positive class, multi-type, macro): 0.24915121838894702
Information Type F1 (positive class, multi-type, macro): 0.17259085731727242
Information Type Accuracy (overall, multi-type, macro): 0.8839526117393647
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): 0.9728056004308024
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2507665223048336
Low Importance Information Type Recall (positive class, multi-type, macro): 0.33220162451859603
Low Importance Information Type F1 (positive class, multi-type, macro): 0.23012114308969656
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8543349488422187

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.12818782878200025
Information Type Recall (positive class, multi-type, macro): 0.08848562285234192
Information Type F1 (positive class, multi-type, macro): 0.07558803496242501
Information Type Accuracy (overall, multi-type, macro): 0.8813525410164068
High Importance Information Type Precision (positive class, multi-type, macro): 0.0040650406504065045
High Importance Information Type Recall (positive class, multi-type, macro): 0.0056179775280898875
High Importance Information Type F1 (positive class, multi-type, macro): 0.0047169811320754715
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9682539682539684
Low Importance Information Type Precision (positive class, multi-type, macro): 0.16956209149253149
Low Importance Information Type Recall (positive class, multi-type, macro): 0.11610817129375928
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09921171957254152
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8523853986038858

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.13143310881755652
Information Type Recall (positive class, multi-type, macro): 0.1879557094501073
Information Type F1 (positive class, multi-type, macro): 0.1398527431523958
Information Type Accuracy (overall, multi-type, macro): 0.8942083333333334
High Importance Information Type Precision (positive class, multi-type, macro): 0.0044444444444444444
High Importance Information Type Recall (positive class, multi-type, macro): 0.018518518518518517
High Importance Information Type F1 (positive class, multi-type, macro): 0.007168458781362006
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9861666666666667
Low Importance Information Type Precision (positive class, multi-type, macro): 0.17376266360859385
Low Importance Information Type Recall (positive class, multi-type, macro): 0.24443477309397021
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1840808379427404
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8635555555555557

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.22175793598426194
Information Type Recall (positive class, multi-type, macro): 0.17940964767084308
Information Type F1 (positive class, multi-type, macro): 0.17164453711372832
Information Type Accuracy (overall, multi-type, macro): 0.8779791666666669

High Importance Information Type Precision (positive class, multi-type, macro): 0.08936195587358377
High Importance Information Type Recall (positive class, multi-type, macro): 0.027380169818493616
High Importance Information Type F1 (positive class, multi-type, macro): 0.03869846528485672
High Importance Information Type Accuracy (overall, multi-type, macro): 0.95175
Low Importance Information Type Precision (positive class, multi-type, macro): 0.26588992935448796
Low Importance Information Type Recall (positive class, multi-type, macro): 0.23008614028829288
Low Importance Information Type F1 (positive class, multi-type, macro): 0.21595989439001892
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8533888888888888

 EVALUATOR: Information Type Categorization (Multi-type)
 Per Information Type Performance

| Request-GoodsServices | | | | |
|------------------------------|-----------|--------|----------|---------|
| | precision | recall | f1-score | support |
| Other Classes | 1.00 | 1.00 | 1.00 | 7611 |
| Request-GoodsServices | 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 |
| Request-SearchAndRescue | | | | |
| | precision | recall | f1-score | support |
| Other Classes | 1.00 | 0.99 | 1.00 | 7624 |
| Request-SearchAndRescue | 0.00 | 0.00 | 0.00 | 10 |
| micro avg | 0.99 | 0.99 | 0.99 | 7634 |
| macro avg | 0.50 | 0.50 | 0.50 | 7634 |
| weighted avg | 1.00 | 0.99 | 1.00 | 7634 |
| Request-InformationWanted | | | | |
| | precision | recall | f1-score | support |
| Other Classes | 0.99 | 0.99 | 0.99 | 7563 |
| Request-InformationWanted | 0.13 | 0.23 | 0.16 | 71 |
| micro avg | 0.98 | 0.98 | 0.98 | 7634 |
| macro avg | 0.56 | 0.61 | 0.58 | 7634 |
| weighted avg | 0.98 | 0.98 | 0.98 | 7634 |
| CallToAction-Volunteer | | | | |
| | precision | recall | f1-score | support |
| Other Classes | 1.00 | 1.00 | 1.00 | 7610 |
| CallToAction-Volunteer | 0.00 | 0.00 | 0.00 | 24 |
| micro avg | 1.00 | 1.00 | 1.00 | 7634 |
| macro avg | 0.50 | 0.50 | 0.50 | 7634 |
| weighted avg | 0.99 | 1.00 | 0.99 | 7634 |
| CallToAction-Donations | | | | |
| | precision | recall | f1-score | support |
| Other Classes | 0.99 | 0.98 | 0.99 | 7556 |
| CallToAction-Donations | 0.01 | 0.01 | 0.01 | 78 |
| micro avg | 0.97 | 0.97 | 0.97 | 7634 |
| macro avg | 0.50 | 0.50 | 0.50 | 7634 |
| weighted avg | 0.98 | 0.97 | 0.98 | 7634 |
| CallToAction-MovePeople | | | | |
| | precision | recall | f1-score | support |
| Other Classes | 0.99 | 1.00 | 0.99 | 7526 |
| CallToAction-MovePeople | 0.00 | 0.00 | 0.00 | 108 |
| 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 | 0.93 | 0.75 | 0.83 | 7150 |
| Report-FirstPartyObservation | 0.06 | 0.22 | 0.09 | 484 |
| micro avg | 0.72 | 0.72 | 0.72 | 7634 |
| macro avg | 0.49 | 0.48 | 0.46 | 7634 |
| weighted avg | 0.88 | 0.72 | 0.78 | 7634 |

| Report-ThirdPartyObservation | | | | | |
|------------------------------|-----------|--------|----------|---------|--|
| | precision | recall | f1-score | support | |
| Other Classes | 0.96 | 0.91 | 0.93 | 7317 | |
| Report-ThirdPartyObservation | 0.08 | 0.20 | 0.12 | 317 | |
| micro avg | 0.88 | 0.88 | 0.88 | 7634 | |
| macro avg | 0.52 | 0.55 | 0.52 | 7634 | |
| weighted avg | 0.93 | 0.88 | 0.90 | 7634 | |

| Report-Weather | | | | | |
|----------------|-----------|--------|----------|---------|--|
| | precision | recall | f1-score | support | |
| Other Classes | 0.96 | 0.99 | 0.97 | 7334 | |
| Report-Weather | 0.08 | 0.03 | 0.04 | 300 | |
| micro avg | 0.95 | 0.95 | 0.95 | 7634 | |
| macro avg | 0.52 | 0.51 | 0.51 | 7634 | |
| weighted avg | 0.93 | 0.95 | 0.94 | 7634 | |

| Report-EmergingThreats | | | | | |
|------------------------|-----------|--------|----------|---------|--|
| | precision | recall | f1-score | support | |
| Other Classes | 0.94 | 0.98 | 0.96 | 7168 | |
| Report-EmergingThreats | 0.10 | 0.03 | 0.05 | 466 | |
| micro avg | 0.92 | 0.92 | 0.92 | 7634 | |
| macro avg | 0.52 | 0.51 | 0.50 | 7634 | |
| weighted avg | 0.89 | 0.92 | 0.90 | 7634 | |

| Report-NewSubEvent | | | | | |
|--------------------|-----------|--------|----------|---------|--|
| | precision | recall | f1-score | support | |
| Other Classes | 0.98 | 0.99 | 0.98 | 7492 | |
| Report-NewSubEvent | 0.04 | 0.03 | 0.03 | 142 | |
| micro avg | 0.97 | 0.97 | 0.97 | 7634 | |
| macro avg | 0.51 | 0.51 | 0.51 | 7634 | |
| weighted avg | 0.96 | 0.97 | 0.97 | 7634 | |

| Report-MultimediaShare | | | | | |
|------------------------|-----------|--------|----------|---------|--|
| | precision | recall | f1-score | support | |
| Other Classes | 0.85 | 0.88 | 0.86 | 6034 | |
| Report-MultimediaShare | 0.48 | 0.41 | 0.44 | 1600 | |
| micro avg | 0.78 | 0.78 | 0.78 | 7634 | |
| macro avg | 0.66 | 0.64 | 0.65 | 7634 | |
| weighted avg | 0.77 | 0.78 | 0.78 | 7634 | |

| Report-ServiceAvailable | | | | | |
|-------------------------|-----------|--------|----------|---------|--|
| | precision | recall | f1-score | support | |
| Other Classes | 0.98 | 0.97 | 0.98 | 7484 | |
| Report-ServiceAvailable | 0.03 | 0.05 | 0.04 | 150 | |
| micro avg | 0.95 | 0.95 | 0.95 | 7634 | |
| macro avg | 0.51 | 0.51 | 0.51 | 7634 | |
| weighted avg | 0.96 | 0.95 | 0.96 | 7634 | |

| Report-Factoid | | | | | |
|----------------|-----------|--------|----------|---------|--|
| | precision | recall | f1-score | support | |
| Other Classes | 0.89 | 0.94 | 0.91 | 6625 | |
| Report-Factoid | 0.33 | 0.20 | 0.25 | 1009 | |
| micro avg | 0.84 | 0.84 | 0.84 | 7634 | |
| macro avg | 0.61 | 0.57 | 0.58 | 7634 | |
| weighted avg | 0.81 | 0.84 | 0.82 | 7634 | |

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

| | | | | |
|-----------------|------|------|------|------|
| Other Classes | 0.97 | 0.99 | 0.98 | 7404 |
| Report-Official | 0.09 | 0.03 | 0.05 | 230 |
| micro avg | 0.96 | 0.96 | 0.96 | 7634 |
| macro avg | 0.53 | 0.51 | 0.51 | 7634 |
| weighted avg | 0.94 | 0.96 | 0.95 | 7634 |

Report-News

| | precision | recall | f1-score | support |
|---------------|-----------|--------|----------|---------|
| Other Classes | 0.85 | 0.89 | 0.87 | 6158 |
| Report-News | 0.42 | 0.35 | 0.38 | 1476 |
| micro avg | 0.78 | 0.78 | 0.78 | 7634 |
| macro avg | 0.64 | 0.62 | 0.63 | 7634 |
| weighted avg | 0.77 | 0.78 | 0.77 | 7634 |

Report-CleanUp

| | precision | recall | f1-score | support |
|----------------|-----------|--------|----------|---------|
| Other Classes | 0.99 | 1.00 | 0.99 | 7559 |
| Report-CleanUp | 0.00 | 0.00 | 0.00 | 75 |
| 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 | 0.68 | 0.90 | 0.78 | 3789 |
| Report-Hashtags | 0.85 | 0.59 | 0.70 | 3845 |
| micro avg | 0.74 | 0.74 | 0.74 | 7634 |
| macro avg | 0.77 | 0.74 | 0.74 | 7634 |
| weighted avg | 0.77 | 0.74 | 0.74 | 7634 |

Report-OriginalEvent

| | precision | recall | f1-score | support |
|----------------------|-----------|--------|----------|---------|
| Other Classes | 0.89 | 0.98 | 0.93 | 6750 |
| Report-OriginalEvent | 0.23 | 0.05 | 0.09 | 884 |
| micro avg | 0.87 | 0.87 | 0.87 | 7634 |
| macro avg | 0.56 | 0.51 | 0.51 | 7634 |
| weighted avg | 0.81 | 0.87 | 0.83 | 7634 |

Other-ContextualInformation

| | precision | recall | f1-score | support |
|-----------------------------|-----------|--------|----------|---------|
| Other Classes | 0.96 | 0.93 | 0.95 | 7364 |
| Other-ContextualInformation | 0.01 | 0.02 | 0.01 | 270 |
| micro avg | 0.90 | 0.90 | 0.90 | 7634 |
| macro avg | 0.49 | 0.47 | 0.48 | 7634 |
| weighted avg | 0.93 | 0.90 | 0.91 | 7634 |

Other-Advice

| | precision | recall | f1-score | support |
|---------------|-----------|--------|----------|---------|
| Other Classes | 0.95 | 0.94 | 0.94 | 7183 |
| Other-Advice | 0.12 | 0.13 | 0.13 | 451 |
| micro avg | 0.90 | 0.90 | 0.90 | 7634 |
| macro avg | 0.53 | 0.54 | 0.54 | 7634 |
| weighted avg | 0.90 | 0.90 | 0.90 | 7634 |

Other-Sentiment

| | precision | recall | f1-score | support |
|-----------------|-----------|--------|----------|---------|
| Other Classes | 0.86 | 0.60 | 0.71 | 5844 |
| Other-Sentiment | 0.34 | 0.68 | 0.46 | 1790 |
| micro avg | 0.62 | 0.62 | 0.62 | 7634 |
| macro avg | 0.60 | 0.64 | 0.58 | 7634 |

| | | | | |
|------------------|-----------|--------|----------|---------|
| weighted avg | 0.74 | 0.62 | 0.65 | 7634 |
| Other-Discussion | | | | |
| | precision | recall | f1-score | support |
| Other Classes | 0.92 | 0.88 | 0.90 | 7064 |
| Other-Discussion | 0.06 | 0.09 | 0.07 | 570 |
| micro avg | 0.82 | 0.82 | 0.82 | 7634 |
| macro avg | 0.49 | 0.49 | 0.49 | 7634 |
| weighted avg | 0.86 | 0.82 | 0.84 | 7634 |
| Other-Irrelevant | | | | |
| | precision | recall | f1-score | support |
| Other Classes | 0.74 | 0.81 | 0.78 | 5013 |
| Other-Irrelevant | 0.56 | 0.47 | 0.51 | 2621 |
| micro avg | 0.69 | 0.69 | 0.69 | 7634 |
| macro avg | 0.65 | 0.64 | 0.64 | 7634 |
| weighted avg | 0.68 | 0.69 | 0.69 | 7634 |