**#Multinomial Naive Bayes:**

High Importance Alert Worth: -0.7060518731988472

Low Importance Alert Worth: 0.0

Accumulated Alert Worth: -0.3530259365994236

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Information Type Precision (positive class, multi-type, macro): 0.16070983439176179

Information Type Recall (positive class, multi-type, macro): 0.03601001628007536

Information Type F1 (positive class, multi-type, macro): 0.03379270689596907

Information Type Accuracy (overall, multi-type, macro): 0.8949227141734347

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): 0.9805038861234826

Low Importance Information Type Precision (positive class, multi-type, macro): 0.21146030841021288

Low Importance Information Type Recall (positive class, multi-type, macro): 0.04738160036852021

Low Importance Information Type F1 (positive class, multi-type, macro): 0.04446408802101193

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8678970809260512

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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

accuracy 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

accuracy 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 7564

Request-InformationWanted 0.00 0.00 0.00 70

accuracy 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

accuracy 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 7557

CallToAction-Donations 0.00 0.00 0.00 77

accuracy 0.99 7634

macro avg 0.49 0.50 0.50 7634

weighted avg 0.98 0.99 0.98 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

accuracy 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 1.00 0.97 7151

Report-FirstPartyObservation 0.00 0.00 0.00 483

accuracy 0.94 7634

macro avg 0.47 0.50 0.48 7634

weighted avg 0.88 0.94 0.91 7634

Report-ThirdPartyObservation

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7317

Report-ThirdPartyObservation 0.00 0.00 0.00 317

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.92 0.96 0.94 7634

Report-Weather

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7335

Report-Weather 0.00 0.00 0.00 299

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.92 0.96 0.94 7634

Report-Location

precision recall f1-score support

Other Classes 0.83 0.69 0.75 6051

Report-Location 0.28 0.46 0.34 1583

accuracy 0.64 7634

macro avg 0.55 0.57 0.55 7634

weighted avg 0.71 0.64 0.67 7634

Report-EmergingThreats

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7169

Report-EmergingThreats 0.00 0.00 0.00 465

accuracy 0.94 7634

macro avg 0.47 0.50 0.48 7634

weighted avg 0.88 0.94 0.91 7634

Report-NewSubEvent

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7493

Report-NewSubEvent 0.00 0.00 0.00 141

accuracy 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 0.79 1.00 0.88 6034

Report-MultimediaShare 0.50 0.01 0.02 1600

accuracy 0.79 7634

macro avg 0.65 0.50 0.45 7634

weighted avg 0.73 0.79 0.70 7634

Report-ServiceAvailable

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7485

Report-ServiceAvailable 0.00 0.00 0.00 149

accuracy 0.98 7634

macro avg 0.49 0.50 0.50 7634

weighted avg 0.96 0.98 0.97 7634

Report-Factoid

precision recall f1-score support

Other Classes 0.87 1.00 0.93 6625

Report-Factoid 0.81 0.03 0.07 1009

accuracy 0.87 7634

macro avg 0.84 0.52 0.50 7634

weighted avg 0.86 0.87 0.82 7634

Report-Official

precision recall f1-score support

Other Classes 0.97 1.00 0.98 7405

Report-Official 0.00 0.00 0.00 229

accuracy 0.97 7634

macro avg 0.49 0.50 0.49 7634

weighted avg 0.94 0.97 0.96 7634

Report-News

precision recall f1-score support

Other Classes 0.81 1.00 0.89 6158

Report-News 1.00 0.00 0.00 1476

accuracy 0.81 7634

macro avg 0.90 0.50 0.45 7634

weighted avg 0.84 0.81 0.72 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

accuracy 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 0.50 1.00 0.66 3789

Report-Hashtags 1.00 0.00 0.00 3845

accuracy 0.50 7634

macro avg 0.75 0.50 0.33 7634

weighted avg 0.75 0.50 0.33 7634

Report-OriginalEvent

precision recall f1-score support

Other Classes 0.88 1.00 0.94 6751

Report-OriginalEvent 0.00 0.00 0.00 883

accuracy 0.88 7634

macro avg 0.44 0.50 0.47 7634

weighted avg 0.78 0.88 0.83 7634

Other-ContextualInformation

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7365

Other-ContextualInformation 0.00 0.00 0.00 269

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.93 0.96 0.95 7634

Other-Advice

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7184

Other-Advice 0.00 0.00 0.00 450

accuracy 0.94 7634

macro avg 0.47 0.50 0.48 7634

weighted avg 0.89 0.94 0.91 7634

Other-Sentiment

precision recall f1-score support

Other Classes 0.77 1.00 0.87 5845

Other-Sentiment 0.00 0.00 0.00 1789

accuracy 0.77 7634

macro avg 0.38 0.50 0.43 7634

weighted avg 0.59 0.77 0.66 7634

Other-Discussion

precision recall f1-score support

Other Classes 0.93 1.00 0.96 7065

Other-Discussion 0.00 0.00 0.00 569

accuracy 0.93 7634

macro avg 0.46 0.50 0.48 7634

weighted avg 0.86 0.93 0.89 7634

Other-Irrelevant

precision recall f1-score support

Other Classes 0.70 0.72 0.71 5013

Other-Irrelevant 0.43 0.40 0.41 2621

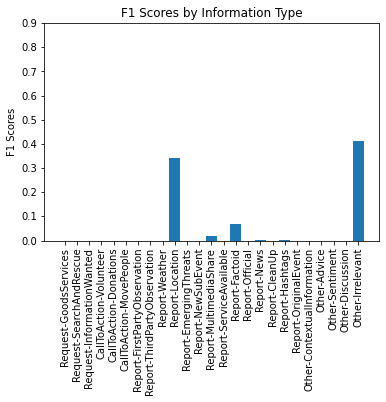
accuracy 0.61 7634

macro avg 0.56 0.56 0.56 7634

weighted avg 0.60 0.61 0.61 7634

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floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.08061566860307291

Information Type Recall (positive class, multi-type, macro): 0.052072697003329636

Information Type F1 (positive class, multi-type, macro): 0.04571030591554262

Information Type Accuracy (overall, multi-type, macro): 0.9595886889460155

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): 0.9965724078834618

Low Importance Information Type Precision (positive class, multi-type, macro): 0.10607324816193804

Low Importance Information Type Recall (positive class, multi-type, macro): 0.06851670658332847

Low Importance Information Type F1 (positive class, multi-type, macro): 0.060145139362556076

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9479096198078745

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.07183126550868486

Information Type Recall (positive class, multi-type, macro): 0.045378754182057286

Information Type F1 (positive class, multi-type, macro): 0.04242424242424242

Information Type Accuracy (overall, multi-type, macro): 0.8825196850393702

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): 0.09451482303774324

Low Importance Information Type Recall (positive class, multi-type, macro): 0.05970888708165432

Low Importance Information Type F1 (positive class, multi-type, macro): 0.05582137161084529

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.850808122668877

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.06911278195488722

Information Type Recall (positive class, multi-type, macro): 0.04004763053825473

Information Type F1 (positive class, multi-type, macro): 0.02996529221850904

Information Type Accuracy (overall, multi-type, macro): 0.8880775444264944

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): 0.9973074851911686

Low Importance Information Type Precision (positive class, multi-type, macro): 0.09093787099327266

Low Importance Information Type Recall (positive class, multi-type, macro): 0.05269425070822992

Low Importance Information Type F1 (positive class, multi-type, macro): 0.03942801607698558

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8535838789218604

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.07300600530406

Information Type Recall (positive class, multi-type, macro): 0.04681186276140835

Information Type F1 (positive class, multi-type, macro): 0.04065389631952645

Information Type Accuracy (overall, multi-type, macro): 0.8975430172068829

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): 0.9763238628784848

Low Importance Information Type Precision (positive class, multi-type, macro): 0.09606053329481579

Low Importance Information Type Recall (positive class, multi-type, macro): 0.06159455626501099

Low Importance Information Type F1 (positive class, multi-type, macro): 0.05349196884148216

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8726648554158504

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.11265052700922266

Information Type Recall (positive class, multi-type, macro): 0.04719951990984708

Information Type F1 (positive class, multi-type, macro): 0.036806235591755075

Information Type Accuracy (overall, multi-type, macro): 0.92194

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): 0.9981666666666668

Low Importance Information Type Precision (positive class, multi-type, macro): 0.14822437764371404

Low Importance Information Type Recall (positive class, multi-type, macro): 0.06210463146032511

Low Importance Information Type F1 (positive class, multi-type, macro): 0.04842925735757247

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8978684210526314

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.11244809952067202

Information Type Recall (positive class, multi-type, macro): 0.06187171360349211

Information Type F1 (positive class, multi-type, macro): 0.01805569771520764

Information Type Accuracy (overall, multi-type, macro): 0.8401999999999998

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): 0.9595833333333333

Low Importance Information Type Precision (positive class, multi-type, macro): 0.14795802568509475

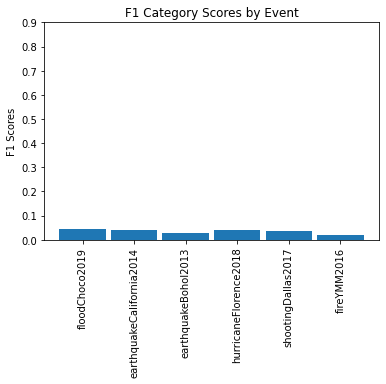
Low Importance Information Type Recall (positive class, multi-type, macro): 0.0814101494782791

Low Importance Information Type F1 (positive class, multi-type, macro): 0.023757496993694262

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8025

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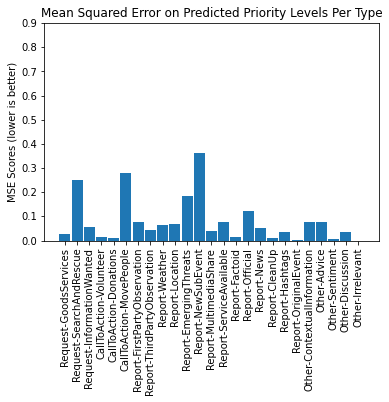
Priority Estimation Error (mean squared error, macro): 0.07949433813003152

Priority Estimation Error High Importance (mean squared error, macro): 0.19619195873249554

Priority Estimation Error Low Importance (mean squared error, macro): 0.0426424579397797

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Run & AW-H & AW-A & CF1-H & CF1-A & CAcc & PErr-H & PErr-A \\

myrun & -0.7061 & -0.3530 & 0.0000 & 0.0181 & 0.8402 & 0.1962 & 0.0795 \\

73

**#Linear SVC (SVM):**

High Importance Alert Worth: -0.7060518731988472

Low Importance Alert Worth: 0.0

Accumulated Alert Worth: -0.3530259365994236

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Information Type Precision (positive class, multi-type, macro): 0.25407874691738797

Information Type Recall (positive class, multi-type, macro): 0.08896166065687072

Information Type F1 (positive class, multi-type, macro): 0.10615644081185734

Information Type Accuracy (overall, multi-type, macro): 0.8961435682473148

High Importance Information Type Precision (positive class, multi-type, macro): 0.1111111111111111

High Importance Information Type Recall (positive class, multi-type, macro): 0.0036528373867429666

High Importance Information Type F1 (positive class, multi-type, macro): 0.006999889661260069

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9803292288883066

Low Importance Information Type Precision (positive class, multi-type, macro): 0.2992264213825279

Low Importance Information Type Recall (positive class, multi-type, macro): 0.11590128905796371

Low Importance Information Type F1 (positive class, multi-type, macro): 0.13746903591204596

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8695586227817383

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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

accuracy 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

accuracy 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 7564

Request-InformationWanted 0.00 0.00 0.00 70

accuracy 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

accuracy 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 1.00 0.03 0.05 78

accuracy 0.99 7634

macro avg 1.00 0.51 0.52 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

accuracy 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 1.00 0.97 7150

Report-FirstPartyObservation 0.17 0.00 0.00 484

accuracy 0.94 7634

macro avg 0.55 0.50 0.49 7634

weighted avg 0.89 0.94 0.91 7634

Report-ThirdPartyObservation

precision recall f1-score support

Other Classes 0.96 0.99 0.97 7317

Report-ThirdPartyObservation 0.04 0.02 0.02 317

accuracy 0.94 7634

macro avg 0.50 0.50 0.50 7634

weighted avg 0.92 0.94 0.93 7634

Report-Weather

precision recall f1-score support

Other Classes 0.97 0.98 0.98 7334

Report-Weather 0.30 0.18 0.22 300

accuracy 0.95 7634

macro avg 0.64 0.58 0.60 7634

weighted avg 0.94 0.95 0.95 7634

Report-Location

precision recall f1-score support

Other Classes 0.82 0.74 0.78 6051

Report-Location 0.28 0.39 0.33 1583

accuracy 0.67 7634

macro avg 0.55 0.57 0.55 7634

weighted avg 0.71 0.67 0.69 7634

Report-EmergingThreats

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7168

Report-EmergingThreats 0.44 0.01 0.02 466

accuracy 0.94 7634

macro avg 0.69 0.50 0.49 7634

weighted avg 0.91 0.94 0.91 7634

Report-NewSubEvent

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7493

Report-NewSubEvent 0.00 0.00 0.00 141

accuracy 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 0.86 0.85 0.85 6034

Report-MultimediaShare 0.45 0.46 0.46 1600

accuracy 0.77 7634

macro avg 0.65 0.66 0.66 7634

weighted avg 0.77 0.77 0.77 7634

Report-ServiceAvailable

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7484

Report-ServiceAvailable 0.22 0.01 0.03 150

accuracy 0.98 7634

macro avg 0.60 0.51 0.51 7634

weighted avg 0.97 0.98 0.97 7634

Report-Factoid

precision recall f1-score support

Other Classes 0.88 0.94 0.91 6625

Report-Factoid 0.31 0.17 0.22 1009

accuracy 0.84 7634

macro avg 0.59 0.56 0.56 7634

weighted avg 0.81 0.84 0.82 7634

Report-Official

precision recall f1-score support

Other Classes 0.97 1.00 0.98 7404

Report-Official 0.06 0.01 0.02 230

accuracy 0.97 7634

macro avg 0.52 0.50 0.50 7634

weighted avg 0.94 0.97 0.95 7634

Report-News

precision recall f1-score support

Other Classes 0.83 0.94 0.88 6158

Report-News 0.45 0.19 0.27 1476

accuracy 0.80 7634

macro avg 0.64 0.57 0.58 7634

weighted avg 0.76 0.80 0.76 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

accuracy 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 0.53 0.91 0.67 3789

Report-Hashtags 0.71 0.21 0.33 3845

accuracy 0.56 7634

macro avg 0.62 0.56 0.50 7634

weighted avg 0.62 0.56 0.50 7634

Report-OriginalEvent

precision recall f1-score support

Other Classes 0.88 1.00 0.94 6750

Report-OriginalEvent 0.20 0.01 0.01 884

accuracy 0.88 7634

macro avg 0.54 0.50 0.48 7634

weighted avg 0.81 0.88 0.83 7634

Other-ContextualInformation

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7365

Other-ContextualInformation 0.00 0.00 0.00 269

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.93 0.96 0.95 7634

Other-Advice

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7183

Other-Advice 0.47 0.03 0.06 451

accuracy 0.94 7634

macro avg 0.71 0.52 0.52 7634

weighted avg 0.91 0.94 0.92 7634

Other-Sentiment

precision recall f1-score support

Other Classes 0.79 0.99 0.88 5844

Other-Sentiment 0.81 0.12 0.21 1790

accuracy 0.79 7634

macro avg 0.80 0.56 0.54 7634

weighted avg 0.79 0.79 0.72 7634

Other-Discussion

precision recall f1-score support

Other Classes 0.93 1.00 0.96 7065

Other-Discussion 0.00 0.00 0.00 569

accuracy 0.93 7634

macro avg 0.46 0.50 0.48 7634

weighted avg 0.86 0.93 0.89 7634

Other-Irrelevant

precision recall f1-score support

Other Classes 0.70 0.75 0.72 5013

Other-Irrelevant 0.44 0.38 0.41 2621

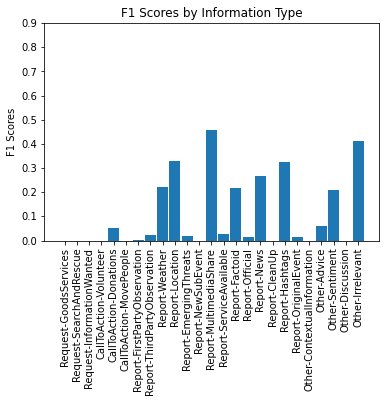
accuracy 0.62 7634

macro avg 0.57 0.57 0.57 7634

weighted avg 0.61 0.62 0.61 7634

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floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.04978461506469741

Information Type Recall (positive class, multi-type, macro): 0.06382907880133186

Information Type F1 (positive class, multi-type, macro): 0.043907390659734896

Information Type Accuracy (overall, multi-type, macro): 0.9368637532133677

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): 0.99528706083976

Low Importance Information Type Precision (positive class, multi-type, macro): 0.06550607245354922

Low Importance Information Type Recall (positive class, multi-type, macro): 0.08398563000175244

Low Importance Information Type F1 (positive class, multi-type, macro): 0.0577728824470196

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9184142876471384

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.1596918767507003

Information Type Recall (positive class, multi-type, macro): 0.08288911210890204

Information Type F1 (positive class, multi-type, macro): 0.08249259222619075

Information Type Accuracy (overall, multi-type, macro): 0.8727559055118111

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): 0.21012089046144775

Low Importance Information Type Recall (positive class, multi-type, macro): 0.10906462119592374

Low Importance Information Type F1 (positive class, multi-type, macro): 0.10854288450814573

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8379610443431413

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.1542500768049155

Information Type Recall (positive class, multi-type, macro): 0.05948157486213683

Information Type F1 (positive class, multi-type, macro): 0.06172009150020053

Information Type Accuracy (overall, multi-type, macro): 0.8911147011308561

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): 0.9964997307485192

Low Importance Information Type Precision (positive class, multi-type, macro): 0.20296062737488885

Low Importance Information Type Recall (positive class, multi-type, macro): 0.07826523008175898

Low Importance Information Type F1 (positive class, multi-type, macro): 0.08121064671079017

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8578352180936996

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.21877421780474735

Information Type Recall (positive class, multi-type, macro): 0.10211484370650986

Information Type F1 (positive class, multi-type, macro): 0.10966868262023759

Information Type Accuracy (overall, multi-type, macro): 0.8908523409363747

High Importance Information Type Precision (positive class, multi-type, macro): 0.125

High Importance Information Type Recall (positive class, multi-type, macro): 0.005172989209033263

High Importance Information Type F1 (positive class, multi-type, macro): 0.009933435739887352

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9761904761904763

Low Importance Information Type Precision (positive class, multi-type, macro): 0.248387128690457

Low Importance Information Type Recall (positive class, multi-type, macro): 0.1327280609162393

Low Importance Information Type F1 (positive class, multi-type, macro): 0.1411640237403482

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8639034561192898

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.15812190219521827

Information Type Recall (positive class, multi-type, macro): 0.08663685624601271

Information Type F1 (positive class, multi-type, macro): 0.07684506040235776

Information Type Accuracy (overall, multi-type, macro): 0.9190999999999998

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): 0.9981666666666668

Low Importance Information Type Precision (positive class, multi-type, macro): 0.20805513446739246

Low Importance Information Type Recall (positive class, multi-type, macro): 0.11399586348159567

Low Importance Information Type F1 (positive class, multi-type, macro): 0.1011119215820497

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8941315789473685

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.2660399807180189

Information Type Recall (positive class, multi-type, macro): 0.13670106926230777

Information Type F1 (positive class, multi-type, macro): 0.12357450052037952

Information Type Accuracy (overall, multi-type, macro): 0.8601599999999999

High Importance Information Type Precision (positive class, multi-type, macro): 0.08333333333333333

High Importance Information Type Recall (positive class, multi-type, macro): 0.002824858757062147

High Importance Information Type F1 (positive class, multi-type, macro): 0.00546448087431694

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9595833333333333

Low Importance Information Type Precision (positive class, multi-type, macro): 0.3237368167342354

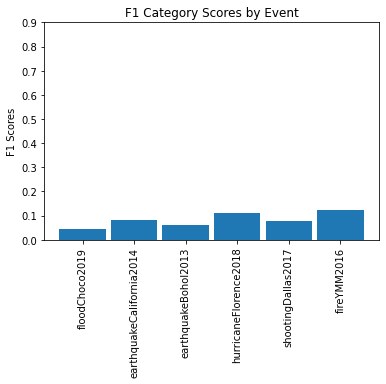
Low Importance Information Type Recall (positive class, multi-type, macro): 0.17897776731659587

Low Importance Information Type F1 (positive class, multi-type, macro): 0.1608724014612414

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8287631578947368

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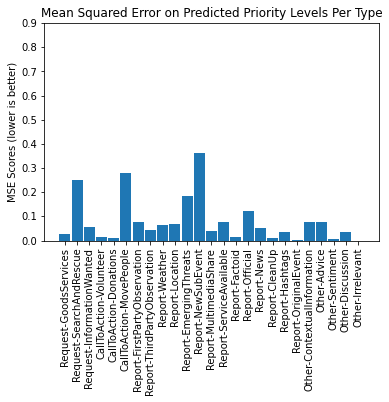
Priority Estimation Error (mean squared error, macro): 0.0794094491882051

Priority Estimation Error High Importance (mean squared error, macro): 0.19604151604139872

Priority Estimation Error Low Importance (mean squared error, macro): 0.04257827018193341

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Run & AW-H & AW-A & CF1-H & CF1-A & CAcc & PErr-H & PErr-A \\

myrun & -0.7061 & -0.3530 & 0.0055 & 0.1236 & 0.8602 & 0.1960 & 0.0794 \\

73

**#SGD Classifier:**

High Importance Alert Worth: -0.7060518731988472

Low Importance Alert Worth: 0.0

Accumulated Alert Worth: -0.3530259365994236

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Information Type Precision (positive class, multi-type, macro): 0.2476882600505705

Information Type Recall (positive class, multi-type, macro): 0.09132005187438513

Information Type F1 (positive class, multi-type, macro): 0.11668897452317241

Information Type Accuracy (overall, multi-type, macro): 0.8950641865339273

High Importance Information Type Precision (positive class, multi-type, macro): 0.1618557563587684

High Importance Information Type Recall (positive class, multi-type, macro): 0.034619078554825274

High Importance Information Type F1 (positive class, multi-type, macro): 0.05651689941307427

High Importance Information Type Accuracy (overall, multi-type, macro): 0.97856082438215

Low Importance Information Type Precision (positive class, multi-type, macro): 0.2747932612164028

Low Importance Information Type Recall (positive class, multi-type, macro): 0.10922562239635142

Low Importance Information Type F1 (positive class, multi-type, macro): 0.1356906824526771

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8686968272134358

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Request-GoodsServices

precision recall f1-score support

Other Classes 1.00 1.00 1.00 7611

Request-GoodsServices 0.25 0.04 0.07 23

accuracy 1.00 7634

macro avg 0.62 0.52 0.54 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

accuracy 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 7564

Request-InformationWanted 0.00 0.00 0.00 70

accuracy 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

accuracy 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 0.23 0.04 0.07 78

accuracy 0.99 7634

macro avg 0.61 0.52 0.53 7634

weighted avg 0.98 0.99 0.98 7634

CallToAction-MovePeople

precision recall f1-score support

Other Classes 0.99 1.00 0.99 7526

CallToAction-MovePeople 0.21 0.05 0.08 108

accuracy 0.98 7634

macro avg 0.60 0.52 0.53 7634

weighted avg 0.98 0.98 0.98 7634

Report-FirstPartyObservation

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7150

Report-FirstPartyObservation 0.09 0.00 0.00 484

accuracy 0.94 7634

macro avg 0.51 0.50 0.49 7634

weighted avg 0.88 0.94 0.91 7634

Report-ThirdPartyObservation

precision recall f1-score support

Other Classes 0.96 0.97 0.97 7317

Report-ThirdPartyObservation 0.07 0.05 0.06 317

accuracy 0.94 7634

macro avg 0.52 0.51 0.51 7634

weighted avg 0.92 0.94 0.93 7634

Report-Weather

precision recall f1-score support

Other Classes 0.97 0.99 0.98 7334

Report-Weather 0.35 0.16 0.22 300

accuracy 0.96 7634

macro avg 0.66 0.57 0.60 7634

weighted avg 0.94 0.96 0.95 7634

Report-Location

precision recall f1-score support

Other Classes 0.82 0.79 0.80 6051

Report-Location 0.28 0.32 0.30 1583

accuracy 0.69 7634

macro avg 0.55 0.55 0.55 7634

weighted avg 0.71 0.69 0.70 7634

Report-EmergingThreats

precision recall f1-score support

Other Classes 0.94 0.99 0.97 7168

Report-EmergingThreats 0.33 0.06 0.10 466

accuracy 0.94 7634

macro avg 0.63 0.53 0.53 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

accuracy 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 0.83 0.92 0.87 6034

Report-MultimediaShare 0.50 0.30 0.38 1600

accuracy 0.79 7634

macro avg 0.66 0.61 0.63 7634

weighted avg 0.76 0.79 0.77 7634

Report-ServiceAvailable

precision recall f1-score support

Other Classes 0.98 0.99 0.99 7484

Report-ServiceAvailable 0.19 0.06 0.09 150

accuracy 0.98 7634

macro avg 0.58 0.53 0.54 7634

weighted avg 0.97 0.98 0.97 7634

Report-Factoid

precision recall f1-score support

Other Classes 0.89 0.93 0.91 6625

Report-Factoid 0.34 0.24 0.28 1009

accuracy 0.84 7634

macro avg 0.61 0.58 0.59 7634

weighted avg 0.82 0.84 0.82 7634

Report-Official

precision recall f1-score support

Other Classes 0.97 1.00 0.98 7404

Report-Official 0.10 0.02 0.03 230

accuracy 0.97 7634

macro avg 0.54 0.51 0.51 7634

weighted avg 0.94 0.97 0.95 7634

Report-News

precision recall f1-score support

Other Classes 0.82 0.97 0.89 6158

Report-News 0.49 0.12 0.20 1476

accuracy 0.81 7634

macro avg 0.66 0.55 0.54 7634

weighted avg 0.76 0.81 0.76 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

accuracy 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 0.52 0.96 0.68 3789

Report-Hashtags 0.76 0.14 0.24 3845

accuracy 0.55 7634

macro avg 0.64 0.55 0.46 7634

weighted avg 0.64 0.55 0.46 7634

Report-OriginalEvent

precision recall f1-score support

Other Classes 0.88 0.99 0.94 6750

Report-OriginalEvent 0.17 0.01 0.02 884

accuracy 0.88 7634

macro avg 0.53 0.50 0.48 7634

weighted avg 0.80 0.88 0.83 7634

Other-ContextualInformation

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7364

Other-ContextualInformation 0.22 0.01 0.01 270

accuracy 0.96 7634

macro avg 0.59 0.50 0.50 7634

weighted avg 0.94 0.96 0.95 7634

Other-Advice

precision recall f1-score support

Other Classes 0.94 0.99 0.97 7183

Other-Advice 0.36 0.08 0.13 451

accuracy 0.94 7634

macro avg 0.65 0.54 0.55 7634

weighted avg 0.91 0.94 0.92 7634

Other-Sentiment

precision recall f1-score support

Other Classes 0.78 0.99 0.87 5844

Other-Sentiment 0.71 0.12 0.20 1790

accuracy 0.78 7634

macro avg 0.74 0.55 0.54 7634

weighted avg 0.77 0.78 0.72 7634

Other-Discussion

precision recall f1-score support

Other Classes 0.93 1.00 0.96 7064

Other-Discussion 0.13 0.00 0.01 570

accuracy 0.92 7634

macro avg 0.53 0.50 0.48 7634

weighted avg 0.87 0.92 0.89 7634

Other-Irrelevant

precision recall f1-score support

Other Classes 0.70 0.66 0.68 5013

Other-Irrelevant 0.41 0.46 0.44 2621

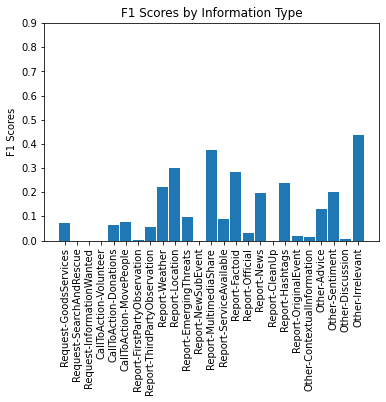
accuracy 0.59 7634

macro avg 0.56 0.56 0.56 7634

weighted avg 0.60 0.59 0.60 7634

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floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.0503011065163565

Information Type Recall (positive class, multi-type, macro): 0.06582368796575233

Information Type F1 (positive class, multi-type, macro): 0.04767787643836581

Information Type Accuracy (overall, multi-type, macro): 0.9551670951156814

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): 0.993573264781491

Low Importance Information Type Precision (positive class, multi-type, macro): 0.06618566646889013

Low Importance Information Type Recall (positive class, multi-type, macro): 0.08661011574441096

Low Importance Information Type F1 (positive class, multi-type, macro): 0.06273404794521817

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9430388310106886

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.14960388149861834

Information Type Recall (positive class, multi-type, macro): 0.07126065891362637

Information Type F1 (positive class, multi-type, macro): 0.07184013372248667

Information Type Accuracy (overall, multi-type, macro): 0.8768503937007871

High Importance Information Type Precision (positive class, multi-type, macro): 0.08333333333333333

High Importance Information Type Recall (positive class, multi-type, macro): 0.016666666666666666

High Importance Information Type F1 (positive class, multi-type, macro): 0.02777777777777778

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9803149606299213

Low Importance Information Type Precision (positive class, multi-type, macro): 0.1705314230244978

Low Importance Information Type Recall (positive class, multi-type, macro): 0.08850086699161365

Low Importance Information Type F1 (positive class, multi-type, macro): 0.08575456191555264

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8441773725652716

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.15877396661284982

Information Type Recall (positive class, multi-type, macro): 0.06467242366628476

Information Type F1 (positive class, multi-type, macro): 0.06420958777044483

Information Type Accuracy (overall, multi-type, macro): 0.8900161550888531

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): 0.9921917070543887

Low Importance Information Type Precision (positive class, multi-type, macro): 0.20891311396427606

Low Importance Information Type Recall (positive class, multi-type, macro): 0.0850952942977431

Low Importance Information Type F1 (positive class, multi-type, macro): 0.08448629969795372

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8577501913102628

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.2115865756642648

Information Type Recall (positive class, multi-type, macro): 0.09637187358212229

Information Type F1 (positive class, multi-type, macro): 0.10734038699112285

Information Type Accuracy (overall, multi-type, macro): 0.8917967186874749

High Importance Information Type Precision (positive class, multi-type, macro): 0.10350218886804252

High Importance Information Type Recall (positive class, multi-type, macro): 0.01881929766010309

High Importance Information Type F1 (positive class, multi-type, macro): 0.031751795368353104

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9744564492463653

Low Importance Information Type Precision (positive class, multi-type, macro): 0.2457184872841245

Low Importance Information Type Recall (positive class, multi-type, macro): 0.1208621607153915

Low Importance Information Type F1 (positive class, multi-type, macro): 0.13121046855620802

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8656936458794044

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.15424667750305723

Information Type Recall (positive class, multi-type, macro): 0.07395689833643028

Information Type F1 (positive class, multi-type, macro): 0.0731755672472991

Information Type Accuracy (overall, multi-type, macro): 0.92082

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): 0.9975

Low Importance Information Type Precision (positive class, multi-type, macro): 0.20295615460928582

Low Importance Information Type Recall (positive class, multi-type, macro): 0.09731170833740826

Low Importance Information Type F1 (positive class, multi-type, macro): 0.09628364111486723

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8966052631578945

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.29196731049383223

Information Type Recall (positive class, multi-type, macro): 0.14715897099869102

Information Type F1 (positive class, multi-type, macro): 0.14127302538194988

Information Type Accuracy (overall, multi-type, macro): 0.84966

High Importance Information Type Precision (positive class, multi-type, macro): 0.32875457875457875

High Importance Information Type Recall (positive class, multi-type, macro): 0.07553650717636279

High Importance Information Type F1 (positive class, multi-type, macro): 0.11993464052287582

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9575

Low Importance Information Type Precision (positive class, multi-type, macro): 0.2803502784114913

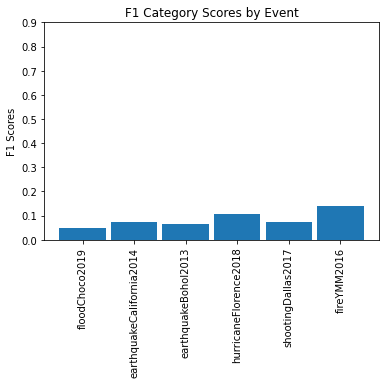
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16977659115311045

Low Importance Information Type F1 (positive class, multi-type, macro): 0.14801146270586799

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8156052631578948

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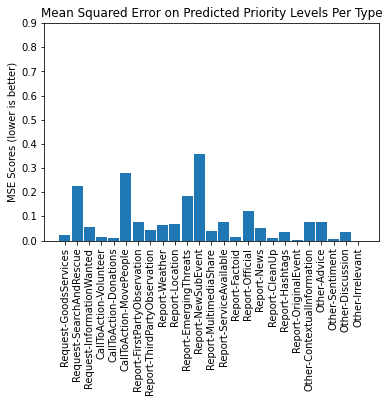
Priority Estimation Error (mean squared error, macro): 0.07813952147231461

Priority Estimation Error High Importance (mean squared error, macro): 0.19083250312933886

Priority Estimation Error Low Importance (mean squared error, macro): 0.04255226410693852

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Run & AW-H & AW-A & CF1-H & CF1-A & CAcc & PErr-H & PErr-A \\

myrun & -0.7061 & -0.3530 & 0.1199 & 0.1413 & 0.8497 & 0.1908 & 0.0781 \\

73

**#Decision Tree Classifier:**

High Importance Alert Worth: -0.7060518731988472

Low Importance Alert Worth: 0.0

Accumulated Alert Worth: -0.3530259365994236

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Information Type Precision (positive class, multi-type, macro): 0.20567039407047394

Information Type Recall (positive class, multi-type, macro): 0.08081696573225436

Information Type F1 (positive class, multi-type, macro): 0.10292169070159245

Information Type Accuracy (overall, multi-type, macro): 0.8924076499869008

High Importance Information Type Precision (positive class, multi-type, macro): 0.07713178294573644

High Importance Information Type Recall (positive class, multi-type, macro): 0.010840503200413737

High Importance Information Type F1 (positive class, multi-type, macro): 0.017847517042034713

High Importance Information Type Accuracy (overall, multi-type, macro): 0.979062963933281

Low Importance Information Type Precision (positive class, multi-type, macro): 0.24626153442565418

Low Importance Information Type Recall (positive class, multi-type, macro): 0.10291479600546719

Low Importance Information Type F1 (positive class, multi-type, macro): 0.1297872192256633

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8650428140038331

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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

accuracy 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

accuracy 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 7564

Request-InformationWanted 0.00 0.00 0.00 70

accuracy 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 0.00 0.00 0.00 24

accuracy 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 1.00 7556

CallToAction-Donations 0.79 0.24 0.37 78

accuracy 0.99 7634

macro avg 0.89 0.62 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 0.00 0.00 0.00 108

accuracy 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 0.99 0.96 7150

Report-FirstPartyObservation 0.05 0.01 0.01 484

accuracy 0.93 7634

macro avg 0.50 0.50 0.49 7634

weighted avg 0.88 0.93 0.90 7634

Report-ThirdPartyObservation

precision recall f1-score support

Other Classes 0.96 0.99 0.97 7317

Report-ThirdPartyObservation 0.04 0.01 0.02 317

accuracy 0.95 7634

macro avg 0.50 0.50 0.49 7634

weighted avg 0.92 0.95 0.93 7634

Report-Weather

precision recall f1-score support

Other Classes 0.97 0.98 0.97 7334

Report-Weather 0.27 0.15 0.19 300

accuracy 0.95 7634

macro avg 0.62 0.57 0.58 7634

weighted avg 0.94 0.95 0.94 7634

Report-Location

precision recall f1-score support

Other Classes 0.80 0.82 0.81 6051

Report-Location 0.25 0.23 0.24 1583

accuracy 0.70 7634

macro avg 0.53 0.52 0.53 7634

weighted avg 0.69 0.70 0.69 7634

Report-EmergingThreats

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7168

Report-EmergingThreats 0.10 0.00 0.01 466

accuracy 0.94 7634

macro avg 0.52 0.50 0.49 7634

weighted avg 0.89 0.94 0.91 7634

Report-NewSubEvent

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7492

Report-NewSubEvent 0.20 0.01 0.03 142

accuracy 0.98 7634

macro avg 0.59 0.51 0.51 7634

weighted avg 0.97 0.98 0.97 7634

Report-MultimediaShare

precision recall f1-score support

Other Classes 0.85 0.90 0.87 6034

Report-MultimediaShare 0.51 0.39 0.44 1600

accuracy 0.79 7634

macro avg 0.68 0.64 0.66 7634

weighted avg 0.78 0.79 0.78 7634

Report-ServiceAvailable

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7484

Report-ServiceAvailable 0.16 0.05 0.07 150

accuracy 0.98 7634

macro avg 0.57 0.52 0.53 7634

weighted avg 0.97 0.98 0.97 7634

Report-Factoid

precision recall f1-score support

Other Classes 0.87 0.93 0.90 6625

Report-Factoid 0.21 0.13 0.16 1009

accuracy 0.82 7634

macro avg 0.54 0.53 0.53 7634

weighted avg 0.79 0.82 0.80 7634

Report-Official

precision recall f1-score support

Other Classes 0.97 0.99 0.98 7404

Report-Official 0.10 0.03 0.05 230

accuracy 0.96 7634

macro avg 0.53 0.51 0.52 7634

weighted avg 0.94 0.96 0.95 7634

Report-News

precision recall f1-score support

Other Classes 0.82 0.97 0.89 6158

Report-News 0.44 0.11 0.18 1476

accuracy 0.80 7634

macro avg 0.63 0.54 0.53 7634

weighted avg 0.75 0.80 0.75 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

accuracy 0.99 7634

macro avg 0.50 0.50 0.50 7634

weighted avg 0.98 0.99 0.98 7634

Report-Hashtags

precision recall f1-score support

Other Classes 0.50 0.93 0.65 3789

Report-Hashtags 0.58 0.10 0.17 3845

accuracy 0.51 7634

macro avg 0.54 0.51 0.41 7634

weighted avg 0.54 0.51 0.41 7634

Report-OriginalEvent

precision recall f1-score support

Other Classes 0.88 0.99 0.94 6750

Report-OriginalEvent 0.19 0.02 0.03 884

accuracy 0.88 7634

macro avg 0.54 0.50 0.48 7634

weighted avg 0.80 0.88 0.83 7634

Other-ContextualInformation

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7364

Other-ContextualInformation 0.00 0.00 0.00 270

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.93 0.96 0.95 7634

Other-Advice

precision recall f1-score support

Other Classes 0.94 0.99 0.97 7183

Other-Advice 0.13 0.02 0.03 451

accuracy 0.94 7634

macro avg 0.54 0.50 0.50 7634

weighted avg 0.89 0.94 0.91 7634

Other-Sentiment

precision recall f1-score support

Other Classes 0.78 0.98 0.87 5844

Other-Sentiment 0.62 0.09 0.16 1790

accuracy 0.77 7634

macro avg 0.70 0.54 0.52 7634

weighted avg 0.74 0.77 0.70 7634

Other-Discussion

precision recall f1-score support

Other Classes 0.93 1.00 0.96 7064

Other-Discussion 0.11 0.01 0.01 570

accuracy 0.92 7634

macro avg 0.52 0.50 0.48 7634

weighted avg 0.86 0.92 0.89 7634

Other-Irrelevant

precision recall f1-score support

Other Classes 0.69 0.66 0.68 5013

Other-Irrelevant 0.40 0.43 0.41 2621

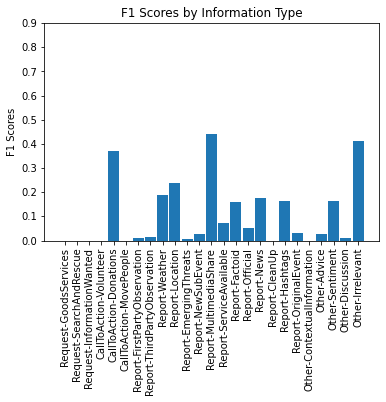
accuracy 0.58 7634

macro avg 0.54 0.55 0.54 7634

weighted avg 0.59 0.58 0.59 7634

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floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.04913767766423094

Information Type Recall (positive class, multi-type, macro): 0.060290153797368004

Information Type F1 (positive class, multi-type, macro): 0.04666122170802913

Information Type Accuracy (overall, multi-type, macro): 0.9565038560411314

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): 0.99528706083976

Low Importance Information Type Precision (positive class, multi-type, macro): 0.06465483903188281

Low Importance Information Type Recall (positive class, multi-type, macro): 0.07932914973337896

Low Importance Information Type F1 (positive class, multi-type, macro): 0.061396344352669906

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9442565282099852

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.10681972789115646

Information Type Recall (positive class, multi-type, macro): 0.05338731566811102

Information Type F1 (positive class, multi-type, macro): 0.046716341415336086

Information Type Accuracy (overall, multi-type, macro): 0.8708661417322833

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): 0.14055227354099534

Low Importance Information Type Recall (positive class, multi-type, macro): 0.0702464679843566

Low Importance Information Type F1 (positive class, multi-type, macro): 0.06146887028333696

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8354745130542893

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.21110210023010084

Information Type Recall (positive class, multi-type, macro): 0.08186475738670812

Information Type F1 (positive class, multi-type, macro): 0.08088001812435346

Information Type Accuracy (overall, multi-type, macro): 0.8920840064620356

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): 0.9951534733441035

Low Importance Information Type Precision (positive class, multi-type, macro): 0.27776592135539585

Low Importance Information Type Recall (positive class, multi-type, macro): 0.10771678603514226

Low Importance Information Type F1 (positive class, multi-type, macro): 0.10642107647941244

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8595357537624352

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.16927429452372503

Information Type Recall (positive class, multi-type, macro): 0.09158140223996492

Information Type F1 (positive class, multi-type, macro): 0.1025398145669467

Information Type Accuracy (overall, multi-type, macro): 0.8851700680272109

High Importance Information Type Precision (positive class, multi-type, macro): 0.07987012987012987

High Importance Information Type Recall (positive class, multi-type, macro): 0.013440982050764378

High Importance Information Type F1 (positive class, multi-type, macro): 0.021957584665686772

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9739229024943312

Low Importance Information Type Precision (positive class, multi-type, macro): 0.19750718862486039

Low Importance Information Type Recall (positive class, multi-type, macro): 0.11625732440497562

Low Importance Information Type F1 (positive class, multi-type, macro): 0.12798683453576565

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8571428571428571

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.10564675654451816

Information Type Recall (positive class, multi-type, macro): 0.066168991080723

Information Type F1 (positive class, multi-type, macro): 0.058051866060090315

Information Type Accuracy (overall, multi-type, macro): 0.9205800000000001

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): 0.9976666666666666

Low Importance Information Type Precision (positive class, multi-type, macro): 0.13900889019015547

Low Importance Information Type Recall (positive class, multi-type, macro): 0.08706446194831974

Low Importance Information Type F1 (positive class, multi-type, macro): 0.07638403428959252

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.896236842105263

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.27711070212273187

Information Type Recall (positive class, multi-type, macro): 0.13428568100540894

Information Type F1 (positive class, multi-type, macro): 0.12087448758895598

Information Type Accuracy (overall, multi-type, macro): 0.84752

High Importance Information Type Precision (positive class, multi-type, macro): 0.20370370370370372

High Importance Information Type Recall (positive class, multi-type, macro): 0.012933421956353164

High Importance Information Type F1 (positive class, multi-type, macro): 0.020552263270709876

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9585000000000002

Low Importance Information Type Precision (positive class, multi-type, macro): 0.3002918595182144

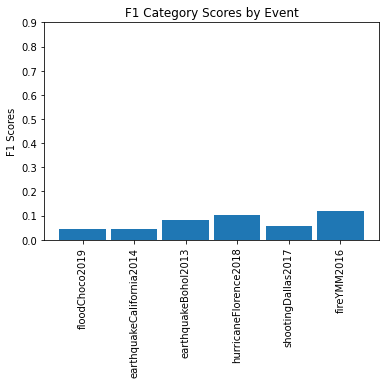
Low Importance Information Type Recall (positive class, multi-type, macro): 0.17260744702090025

Low Importance Information Type F1 (positive class, multi-type, macro): 0.15255519000524423

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8124736842105262

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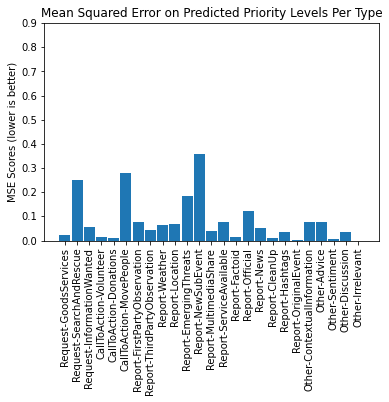
Priority Estimation Error (mean squared error, macro): 0.07911234755927113

Priority Estimation Error High Importance (mean squared error, macro): 0.19499916979600554

Priority Estimation Error Low Importance (mean squared error, macro): 0.042516508958197106

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Run & AW-H & AW-A & CF1-H & CF1-A & CAcc & PErr-H & PErr-A \\

myrun & -0.7061 & -0.3530 & 0.0206 & 0.1209 & 0.8475 & 0.1950 & 0.0791 \\

73

**#Random Forest Classifier:**

High Importance Alert Worth: -0.7060518731988472

Low Importance Alert Worth: 0.0

Accumulated Alert Worth: -0.3530259365994236

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Information Type Precision (positive class, multi-type, macro): 0.023325852585258527

Information Type Recall (positive class, multi-type, macro): 0.02489520595472257

Information Type F1 (positive class, multi-type, macro): 0.012043951930724963

Information Type Accuracy (overall, multi-type, macro): 0.88657060518732

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): 0.9805038861234826

Low Importance Information Type Precision (positive class, multi-type, macro): 0.030691911296392798

Low Importance Information Type Recall (positive class, multi-type, macro): 0.03275684994042444

Low Importance Information Type F1 (positive class, multi-type, macro): 0.01584730517200653

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.856907463839058

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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

accuracy 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

accuracy 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 7564

Request-InformationWanted 0.00 0.00 0.00 70

accuracy 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

accuracy 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 7557

CallToAction-Donations 0.00 0.00 0.00 77

accuracy 0.99 7634

macro avg 0.49 0.50 0.50 7634

weighted avg 0.98 0.99 0.98 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

accuracy 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 1.00 0.97 7151

Report-FirstPartyObservation 0.00 0.00 0.00 483

accuracy 0.94 7634

macro avg 0.47 0.50 0.48 7634

weighted avg 0.88 0.94 0.91 7634

Report-ThirdPartyObservation

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7318

Report-ThirdPartyObservation 0.00 0.00 0.00 316

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.92 0.96 0.94 7634

Report-Weather

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7335

Report-Weather 0.00 0.00 0.00 299

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.92 0.96 0.94 7634

Report-Location

precision recall f1-score support

Other Classes 0.77 0.33 0.46 6051

Report-Location 0.19 0.62 0.30 1583

accuracy 0.39 7634

macro avg 0.48 0.47 0.38 7634

weighted avg 0.65 0.39 0.43 7634

Report-EmergingThreats

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7169

Report-EmergingThreats 0.00 0.00 0.00 465

accuracy 0.94 7634

macro avg 0.47 0.50 0.48 7634

weighted avg 0.88 0.94 0.91 7634

Report-NewSubEvent

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7493

Report-NewSubEvent 0.00 0.00 0.00 141

accuracy 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 0.79 1.00 0.88 6035

Report-MultimediaShare 0.00 0.00 0.00 1599

accuracy 0.79 7634

macro avg 0.40 0.50 0.44 7634

weighted avg 0.62 0.79 0.70 7634

Report-ServiceAvailable

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7485

Report-ServiceAvailable 0.00 0.00 0.00 149

accuracy 0.98 7634

macro avg 0.49 0.50 0.50 7634

weighted avg 0.96 0.98 0.97 7634

Report-Factoid

precision recall f1-score support

Other Classes 0.87 1.00 0.93 6625

Report-Factoid 0.00 0.00 0.00 1009

accuracy 0.87 7634

macro avg 0.43 0.50 0.46 7634

weighted avg 0.75 0.87 0.81 7634

Report-Official

precision recall f1-score support

Other Classes 0.97 1.00 0.98 7405

Report-Official 0.00 0.00 0.00 229

accuracy 0.97 7634

macro avg 0.49 0.50 0.49 7634

weighted avg 0.94 0.97 0.96 7634

Report-News

precision recall f1-score support

Other Classes 0.81 1.00 0.89 6158

Report-News 0.00 0.00 0.00 1476

accuracy 0.81 7634

macro avg 0.40 0.50 0.45 7634

weighted avg 0.65 0.81 0.72 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

accuracy 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 0.50 1.00 0.66 3790

Report-Hashtags 0.00 0.00 0.00 3844

accuracy 0.50 7634

macro avg 0.25 0.50 0.33 7634

weighted avg 0.25 0.50 0.33 7634

Report-OriginalEvent

precision recall f1-score support

Other Classes 0.88 1.00 0.94 6751

Report-OriginalEvent 0.00 0.00 0.00 883

accuracy 0.88 7634

macro avg 0.44 0.50 0.47 7634

weighted avg 0.78 0.88 0.83 7634

Other-ContextualInformation

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7365

Other-ContextualInformation 0.00 0.00 0.00 269

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.93 0.96 0.95 7634

Other-Advice

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7184

Other-Advice 0.00 0.00 0.00 450

accuracy 0.94 7634

macro avg 0.47 0.50 0.48 7634

weighted avg 0.89 0.94 0.91 7634

Other-Sentiment

precision recall f1-score support

Other Classes 0.77 1.00 0.87 5845

Other-Sentiment 0.00 0.00 0.00 1789

accuracy 0.77 7634

macro avg 0.38 0.50 0.43 7634

weighted avg 0.59 0.77 0.66 7634

Other-Discussion

precision recall f1-score support

Other Classes 0.93 1.00 0.96 7065

Other-Discussion 0.00 0.00 0.00 569

accuracy 0.93 7634

macro avg 0.46 0.50 0.48 7634

weighted avg 0.86 0.93 0.89 7634

Other-Irrelevant

precision recall f1-score support

Other Classes 0.66 1.00 0.79 5013

Other-Irrelevant 0.39 0.00 0.01 2621

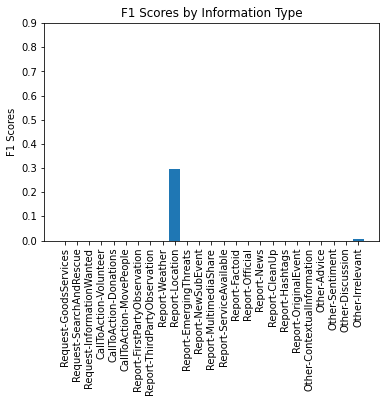
accuracy 0.66 7634

macro avg 0.52 0.50 0.40 7634

weighted avg 0.56 0.66 0.52 7634

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floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.039526188557614826

Information Type Recall (positive class, multi-type, macro): 0.03853496115427303

Information Type F1 (positive class, multi-type, macro): 0.02685861085873618

Information Type Accuracy (overall, multi-type, macro): 0.9477634961439588

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): 0.9965724078834618

Low Importance Information Type Precision (positive class, multi-type, macro): 0.052008142838966875

Low Importance Information Type Recall (positive class, multi-type, macro): 0.05070389625562241

Low Importance Information Type F1 (positive class, multi-type, macro): 0.035340277445705504

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9323501555946422

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.040563829787234044

Information Type Recall (positive class, multi-type, macro): 0.04508828250401284

Information Type F1 (positive class, multi-type, macro): 0.04179566074950691

Information Type Accuracy (overall, multi-type, macro): 0.8866141732283463

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): 0.05337346024636059

Low Importance Information Type Recall (positive class, multi-type, macro): 0.05932668750528005

Low Importance Information Type F1 (positive class, multi-type, macro): 0.05499429045987752

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8561956071280563

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.012378159474933668

Information Type Recall (positive class, multi-type, macro): 0.033034934497816595

Information Type F1 (positive class, multi-type, macro): 0.010454021053328844

Information Type Accuracy (overall, multi-type, macro): 0.867334410339257

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): 0.9973074851911686

Low Importance Information Type Precision (positive class, multi-type, macro): 0.016287051940702194

Low Importance Information Type Recall (positive class, multi-type, macro): 0.04346701907607447

Low Importance Information Type F1 (positive class, multi-type, macro): 0.013755290859643216

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8262902814386532

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.029263240057760608

Information Type Recall (positive class, multi-type, macro): 0.0392342498641852

Information Type F1 (positive class, multi-type, macro): 0.033068427598310614

Information Type Accuracy (overall, multi-type, macro): 0.8910444177671069

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): 0.9763238628784848

Low Importance Information Type Precision (positive class, multi-type, macro): 0.03850426323389553

Low Importance Information Type Recall (positive class, multi-type, macro): 0.05162401297919105

Low Importance Information Type F1 (positive class, multi-type, macro): 0.04351108894514555

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8641140666793031

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.023792979513597698

Information Type Recall (positive class, multi-type, macro): 0.03810577671499989

Information Type F1 (positive class, multi-type, macro): 0.021970543965660814

Information Type Accuracy (overall, multi-type, macro): 0.9056000000000001

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): 0.9981666666666668

Low Importance Information Type Precision (positive class, multi-type, macro): 0.03130655199157592

Low Importance Information Type Recall (positive class, multi-type, macro): 0.05013917988815774

Low Importance Information Type F1 (positive class, multi-type, macro): 0.02890861048113265

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8763684210526314

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.00809949094472445

Information Type Recall (positive class, multi-type, macro): 0.04025835866261398

Information Type F1 (positive class, multi-type, macro): 0.012929971988795516

Information Type Accuracy (overall, multi-type, macro): 0.84124

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): 0.9595833333333333

Low Importance Information Type Precision (positive class, multi-type, macro): 0.010657224927269015

Low Importance Information Type Recall (positive class, multi-type, macro): 0.05297152455607102

Low Importance Information Type F1 (positive class, multi-type, macro): 0.017013121037888837

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8038684210526316

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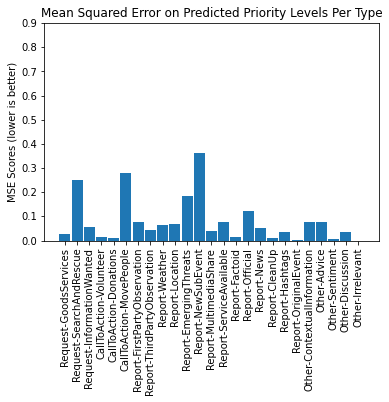
Priority Estimation Error (mean squared error, macro): 0.07950127342536815

Priority Estimation Error High Importance (mean squared error, macro): 0.19619195873249554

Priority Estimation Error Low Importance (mean squared error, macro): 0.04265158332838054

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Run & AW-H & AW-A & CF1-H & CF1-A & CAcc & PErr-H & PErr-A \\

myrun & -0.7061 & -0.3530 & 0.0000 & 0.0129 & 0.8412 & 0.1962 & 0.0795 \\

73

**#Multilayer Perceptron:**

High Importance Alert Worth: -0.7060518731988472

Low Importance Alert Worth: 0.0

Accumulated Alert Worth: -0.3530259365994236

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Information Type Precision (positive class, multi-type, macro): 0.2868917201460022

Information Type Recall (positive class, multi-type, macro): 0.08701456676518633

Information Type F1 (positive class, multi-type, macro): 0.11543494581020497

Information Type Accuracy (overall, multi-type, macro): 0.8999109248100603

High Importance Information Type Precision (positive class, multi-type, macro): 0.24904761904761905

High Importance Information Type Recall (positive class, multi-type, macro): 0.015096169130503894

High Importance Information Type F1 (positive class, multi-type, macro): 0.02839362700626685

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9800017465723517

Low Importance Information Type Precision (positive class, multi-type, macro): 0.2988424889139127

Low Importance Information Type Recall (positive class, multi-type, macro): 0.10972563970245447

Low Importance Information Type F1 (positive class, multi-type, macro): 0.14292167806408013

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8746190863588104

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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

accuracy 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

accuracy 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 7564

Request-InformationWanted 0.00 0.00 0.00 70

accuracy 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

accuracy 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 0.60 0.04 0.07 78

accuracy 0.99 7634

macro avg 0.80 0.52 0.53 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 0.06 0.11 108

accuracy 0.99 7634

macro avg 0.99 0.53 0.55 7634

weighted avg 0.99 0.99 0.98 7634

Report-FirstPartyObservation

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7150

Report-FirstPartyObservation 0.20 0.01 0.01 484

accuracy 0.94 7634

macro avg 0.57 0.50 0.49 7634

weighted avg 0.89 0.94 0.91 7634

Report-ThirdPartyObservation

precision recall f1-score support

Other Classes 0.96 0.98 0.97 7317

Report-ThirdPartyObservation 0.05 0.03 0.04 317

accuracy 0.94 7634

macro avg 0.50 0.50 0.50 7634

weighted avg 0.92 0.94 0.93 7634

Report-Weather

precision recall f1-score support

Other Classes 0.96 0.99 0.98 7334

Report-Weather 0.36 0.10 0.15 300

accuracy 0.96 7634

macro avg 0.66 0.54 0.57 7634

weighted avg 0.94 0.96 0.95 7634

Report-Location

precision recall f1-score support

Other Classes 0.82 0.81 0.81 6051

Report-Location 0.30 0.32 0.31 1583

accuracy 0.71 7634

macro avg 0.56 0.56 0.56 7634

weighted avg 0.71 0.71 0.71 7634

Report-EmergingThreats

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7168

Report-EmergingThreats 0.28 0.02 0.03 466

accuracy 0.94 7634

macro avg 0.61 0.51 0.50 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

accuracy 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 0.83 0.93 0.88 6034

Report-MultimediaShare 0.50 0.28 0.36 1600

accuracy 0.79 7634

macro avg 0.67 0.60 0.62 7634

weighted avg 0.76 0.79 0.77 7634

Report-ServiceAvailable

precision recall f1-score support

Other Classes 0.98 1.00 0.99 7484

Report-ServiceAvailable 0.21 0.02 0.04 150

accuracy 0.98 7634

macro avg 0.60 0.51 0.51 7634

weighted avg 0.97 0.98 0.97 7634

Report-Factoid

precision recall f1-score support

Other Classes 0.88 0.97 0.92 6625

Report-Factoid 0.41 0.15 0.22 1009

accuracy 0.86 7634

macro avg 0.65 0.56 0.57 7634

weighted avg 0.82 0.86 0.83 7634

Report-Official

precision recall f1-score support

Other Classes 0.97 0.99 0.98 7404

Report-Official 0.15 0.04 0.07 230

accuracy 0.96 7634

macro avg 0.56 0.52 0.52 7634

weighted avg 0.95 0.96 0.95 7634

Report-News

precision recall f1-score support

Other Classes 0.83 0.96 0.89 6158

Report-News 0.50 0.16 0.24 1476

accuracy 0.81 7634

macro avg 0.66 0.56 0.56 7634

weighted avg 0.76 0.81 0.76 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

accuracy 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 0.55 0.92 0.69 3789

Report-Hashtags 0.76 0.25 0.37 3845

accuracy 0.58 7634

macro avg 0.65 0.58 0.53 7634

weighted avg 0.65 0.58 0.53 7634

Report-OriginalEvent

precision recall f1-score support

Other Classes 0.88 1.00 0.94 6750

Report-OriginalEvent 0.23 0.01 0.02 884

accuracy 0.88 7634

macro avg 0.55 0.50 0.48 7634

weighted avg 0.81 0.88 0.83 7634

Other-ContextualInformation

precision recall f1-score support

Other Classes 0.96 1.00 0.98 7364

Other-ContextualInformation 0.00 0.00 0.00 270

accuracy 0.96 7634

macro avg 0.48 0.50 0.49 7634

weighted avg 0.93 0.96 0.95 7634

Other-Advice

precision recall f1-score support

Other Classes 0.94 1.00 0.97 7183

Other-Advice 0.50 0.07 0.13 451

accuracy 0.94 7634

macro avg 0.72 0.53 0.55 7634

weighted avg 0.92 0.94 0.92 7634

Other-Sentiment

precision recall f1-score support

Other Classes 0.79 0.98 0.88 5844

Other-Sentiment 0.68 0.17 0.27 1790

accuracy 0.79 7634

macro avg 0.74 0.57 0.57 7634

weighted avg 0.77 0.79 0.73 7634

Other-Discussion

precision recall f1-score support

Other Classes 0.93 1.00 0.96 7064

Other-Discussion 0.00 0.00 0.00 570

accuracy 0.92 7634

macro avg 0.46 0.50 0.48 7634

weighted avg 0.86 0.92 0.89 7634

Other-Irrelevant

precision recall f1-score support

Other Classes 0.71 0.70 0.70 5013

Other-Irrelevant 0.44 0.46 0.45 2621

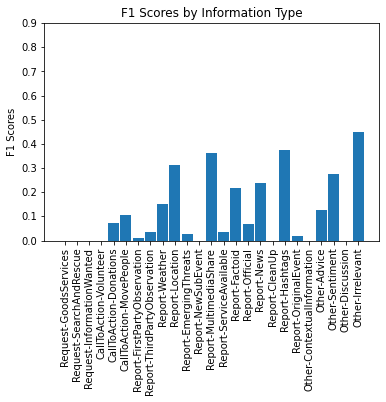
accuracy 0.62 7634

macro avg 0.58 0.58 0.58 7634

weighted avg 0.62 0.62 0.62 7634

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floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.05736597038878442

Information Type Recall (positive class, multi-type, macro): 0.06003527826224829

Information Type F1 (positive class, multi-type, macro): 0.04998354067847156

Information Type Accuracy (overall, multi-type, macro): 0.9543444730077121

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): 0.9957155098543273

Low Importance Information Type Precision (positive class, multi-type, macro): 0.07548153998524265

Low Importance Information Type Recall (positive class, multi-type, macro): 0.0789937871871688

Low Importance Information Type F1 (positive class, multi-type, macro): 0.06576781668219941

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9412799350561495

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.16763540358672205

Information Type Recall (positive class, multi-type, macro): 0.08311371103938332

Information Type F1 (positive class, multi-type, macro): 0.08939837258695965

Information Type Accuracy (overall, multi-type, macro): 0.8743307086614174

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): 0.22057289945621322

Low Importance Information Type Recall (positive class, multi-type, macro): 0.10936014610445174

Low Importance Information Type F1 (positive class, multi-type, macro): 0.11762943761442059

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.840033153750518

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.18187363324270225

Information Type Recall (positive class, multi-type, macro): 0.06946789742329962

Information Type F1 (positive class, multi-type, macro): 0.0759860323536059

Information Type Accuracy (overall, multi-type, macro): 0.892730210016155

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): 0.9924609585352719

Low Importance Information Type Precision (positive class, multi-type, macro): 0.23930741216145035

Low Importance Information Type Recall (positive class, multi-type, macro): 0.09140512818855213

Low Importance Information Type F1 (positive class, multi-type, macro): 0.0999816215179025

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8612362894311708

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.19439107610879933

Information Type Recall (positive class, multi-type, macro): 0.08782289179233221

Information Type F1 (positive class, multi-type, macro): 0.09932889073444126

Information Type Accuracy (overall, multi-type, macro): 0.8940696278511404

High Importance Information Type Precision (positive class, multi-type, macro): 0.09393939393939395

High Importance Information Type Recall (positive class, multi-type, macro): 0.005172989209033263

High Importance Information Type F1 (positive class, multi-type, macro): 0.009805880198448374

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9759237028144591

Low Importance Information Type Precision (positive class, multi-type, macro): 0.2261126599517694

Low Importance Information Type Recall (positive class, multi-type, macro): 0.11392286102916346

Low Importance Information Type F1 (positive class, multi-type, macro): 0.1275993151142285

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.868220972599566

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.1545855087631651

Information Type Recall (positive class, multi-type, macro): 0.061872663041808135

Information Type F1 (positive class, multi-type, macro): 0.06100640628718855

Information Type Accuracy (overall, multi-type, macro): 0.92226

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): 0.9981666666666668

Low Importance Information Type Precision (positive class, multi-type, macro): 0.2034019852146909

Low Importance Information Type Recall (positive class, multi-type, macro): 0.08141139873922122

Low Importance Information Type F1 (positive class, multi-type, macro): 0.08027158721998494

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8982894736842105

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.32074416452203347

Information Type Recall (positive class, multi-type, macro): 0.1453080487144661

Information Type F1 (positive class, multi-type, macro): 0.14495781071902983

Information Type Accuracy (overall, multi-type, macro): 0.8633600000000001

High Importance Information Type Precision (positive class, multi-type, macro): 0.29365079365079366

High Importance Information Type Recall (positive class, multi-type, macro): 0.019346613559493683

High Importance Information Type F1 (positive class, multi-type, macro): 0.03603529087400055

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9598333333333334

Low Importance Information Type Precision (positive class, multi-type, macro): 0.3292999658497933

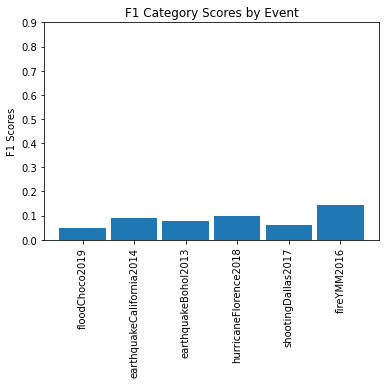
Low Importance Information Type Recall (positive class, multi-type, macro): 0.18508534402656263

Low Importance Information Type F1 (positive class, multi-type, macro): 0.17935439593324962

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8328947368421051

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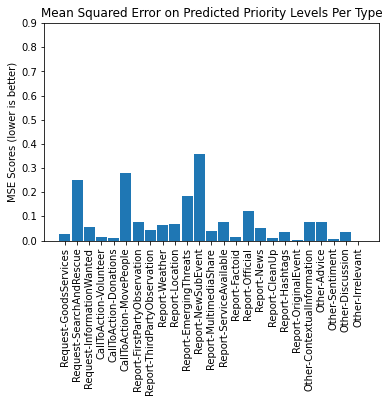
Priority Estimation Error (mean squared error, macro): 0.07918984373133253

Priority Estimation Error High Importance (mean squared error, macro): 0.19518444647584743

Priority Estimation Error Low Importance (mean squared error, macro): 0.04255996918043307

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Run & AW-H & AW-A & CF1-H & CF1-A & CAcc & PErr-H & PErr-A \\

myrun & -0.7061 & -0.3530 & 0.0360 & 0.1450 & 0.8634 & 0.1952 & 0.0792 \\

73