

UCD_CS_R2

Task 2

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4
Run: UCD_CS_R2 (UCD_CS_R2.2020A.task1.run)

EVALUATOR: Alertng Performance
Overall performance

> High Importance Alert Worth: -0.39196217494089575
> Low Importance Alert Worth: -0.02926161543444896
> Accumulated Alert Worth: -0.21061189518767234

EVALUATOR: nDCG and Priority
Overall performance

> nDCG: 0.4863550074351247

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.14775263018416723
> Information Type Recall (positive class, multi-type, macro): 0.18634572883973688
> Information Type F1 (positive class, multi-type, macro): 0.1550829707707315
> Information Type Accuracy (overall, multi-type, macro): 0.9318091738963579
> High Importance Information Type Precision (positive class, multi-type, macro): 0.15285223201435777
> High Importance Information Type Recall (positive class, multi-type, macro): 0.16420121746208702
> High Importance Information Type F1 (positive class, multi-type, macro): 0.15529495396843424
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9682669501921977
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.14338154290114677
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.20532673859200817
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.15490127088698627
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.900559651357067

EVALUATOR: Information Priority Level
Overall Performance

> Priority Label Prediction (F1, macro): 0.26117136843014244
> Priority Label Prediction High Importance (F1, macro): 0.19527319159634723
> Priority Label Prediction Low Importance (F1, macro): 0.31765552000196695

LATEX

UCD_CS_R2 & 0.4864 & -0.3920 & -0.2106 & 0.1553 & 0.1551 & 0.9318 & 0.1953 & 0.2612 \\

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4

Run: UCD_CS_R2 (UCD_CS_R2.2020A.task1.run)

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

athensEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.07031135531135532
Information Type Recall (positive class, multi-type, macro): 0.1282051282051282
Information Type F1 (positive class, multi-type, macro): 0.07489117867101952
Information Type Accuracy (overall, multi-type, macro): 0.9390144738981948
High Importance Information Type Precision (positive class, multi-type, macro): 0.002976190476190476
High Importance Information Type Recall (positive class, multi-type, macro): 0.08333333333333333
High Importance Information Type F1 (positive class, multi-type, macro): 0.005747126436781608
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9545454545454545
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12802721088435373
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16666666666666669
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13415750915750915
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9257022047719722

baltimoreFlashFlood2020

Information Type Precision (positive class, multi-type, macro): 0.0
Information Type Recall (positive class, multi-type, macro): 0.0
Information Type F1 (positive class, multi-type, macro): 0.0
Information Type Accuracy (overall, multi-type, macro): 0.9903231097260947
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): 0.9946695095948827
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0
Low Importance Information Type Recall (positive class, multi-type, macro): 0.0
Low Importance Information Type F1 (positive class, multi-type, macro): 0.0
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9865976241242765

brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.10860542335362479
Information Type Recall (positive class, multi-type, macro): 0.057934792906348835
Information Type F1 (positive class, multi-type, macro): 0.07539824278285817
Information Type Accuracy (overall, multi-type, macro): 0.9217921952786253
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): 0.9902574808629089
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2016957862281603
Low Importance Information Type Recall (positive class, multi-type, macro): 0.10759318682607641
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14002530802530805

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8631076647778109

daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.07786014569493918
Information Type Recall (positive class, multi-type, macro): 0.06868131868131867
Information Type F1 (positive class, multi-type, macro): 0.07245898793507508
Information Type Accuracy (overall, multi-type, macro): 0.956923076923077
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): 0.9957894736842104
Low Importance Information Type Precision (positive class, multi-type, macro): 0.14459741343345847
Low Importance Information Type Recall (positive class, multi-type, macro): 0.12755102040816327
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13456669187942513
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9236090225563908

elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.0646644581410636
Information Type Recall (positive class, multi-type, macro): 0.08286698695656827
Information Type F1 (positive class, multi-type, macro): 0.07260593927260593
Information Type Accuracy (overall, multi-type, macro): 0.9551995888298784
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): 0.9855233853006681
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12009113654768955
Low Importance Information Type Recall (positive class, multi-type, macro): 0.15389583291934109
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13483960150626817
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9292077632834871

gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.11076183431952663
Information Type Recall (positive class, multi-type, macro): 0.05173090124546435
Information Type F1 (positive class, multi-type, macro): 0.06946764860408422
Information Type Accuracy (overall, multi-type, macro): 0.96088379705401
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): 0.997872340425532
Low Importance Information Type Precision (positive class, multi-type, macro): 0.20570054945054947
Low Importance Information Type Recall (positive class, multi-type, macro): 0.09607167374157666
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12901134740758496
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9291793313069909

hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.04354403135819739
Information Type Recall (positive class, multi-type, macro): 0.23608058608058607

Information Type F1 (positive class, multi-type, macro): 0.062361264849952636
Information Type Accuracy (overall, multi-type, macro): 0.9209447269148762
High Importance Information Type Precision (positive class, multi-type, macro): 0.029279279279279275
High Importance Information Type Recall (positive class, multi-type, macro): 0.094444444444444444
High Importance Information Type F1 (positive class, multi-type, macro): 0.042064689123512654
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9466950959488273
Low Importance Information Type Precision (positive class, multi-type, macro): 0.05577096171155577
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3574829931972789
Low Importance Information Type F1 (positive class, multi-type, macro): 0.07975832975832976
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8988729820286323

indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.26070709025296607
Information Type Recall (positive class, multi-type, macro): 0.15981272486640088
Information Type F1 (positive class, multi-type, macro): 0.18949805723672652
Information Type Accuracy (overall, multi-type, macro): 0.9011456628477905
High Importance Information Type Precision (positive class, multi-type, macro): 0.3764526638020614
High Importance Information Type Recall (positive class, multi-type, macro): 0.2234320405310971
High Importance Information Type F1 (positive class, multi-type, macro): 0.2776485874571999
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9053191489361702
Low Importance Information Type Precision (positive class, multi-type, macro): 0.16149659863945579
Low Importance Information Type Recall (positive class, multi-type, macro): 0.10528188286808977
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1139404599048922
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8975683890577508

keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.14709292777481947
Information Type Recall (positive class, multi-type, macro): 0.12169959303186902
Information Type F1 (positive class, multi-type, macro): 0.0988028727268617
Information Type Accuracy (overall, multi-type, macro): 0.8699586858154633
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): 0.9437340153452686
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2731725801532362
Low Importance Information Type Recall (positive class, multi-type, macro): 0.22601352991632817
Low Importance Information Type F1 (positive class, multi-type, macro): 0.183491049349886
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8067226890756302

myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.11441499676793795
Information Type Recall (positive class, multi-type, macro): 0.15281328840650873
Information Type F1 (positive class, multi-type, macro): 0.09101379665253509
Information Type Accuracy (overall, multi-type, macro): 0.9404255319148935
High Importance Information Type Precision (positive class, multi-type, macro): 0.027777777777777776
High Importance Information Type Recall (positive class, multi-type, macro): 0.14285714285714285
High Importance Information Type F1 (positive class, multi-type, macro): 0.046511627906976744

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9567375886524823
Low Importance Information Type Precision (positive class, multi-type, macro): 0.18867547018807523
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16134712744882235
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12915851272015655
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9264437689969603

papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.22179487179487178
Information Type Recall (positive class, multi-type, macro): 0.1812705812705813
Information Type F1 (positive class, multi-type, macro): 0.15165531205135163
Information Type Accuracy (overall, multi-type, macro): 0.8740320082601962
High Importance Information Type Precision (positive class, multi-type, macro): 0.10357142857142858
High Importance Information Type Recall (positive class, multi-type, macro): 0.1994949494949495
High Importance Information Type F1 (positive class, multi-type, macro): 0.10957095709570956
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9246830723340791
Low Importance Information Type Precision (positive class, multi-type, macro): 0.32312925170068024
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16564969422112277
Low Importance Information Type F1 (positive class, multi-type, macro): 0.18772761629904486
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8306168104825823

siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.11335726655764458
Information Type Recall (positive class, multi-type, macro): 0.08659695143566111
Information Type F1 (positive class, multi-type, macro): 0.08946200741493124
Information Type Accuracy (overall, multi-type, macro): 0.9276209023044466
High Importance Information Type Precision (positive class, multi-type, macro): 0.09649122807017545
High Importance Information Type Recall (positive class, multi-type, macro): 0.02619047619047619
High Importance Information Type F1 (positive class, multi-type, macro): 0.04119850187265917
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9672995780590719
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12781387097547528
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1383739302172482
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13083072645116442
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8936106088004822

typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.04188658342012975
Information Type Recall (positive class, multi-type, macro): 0.04615384615384615
Information Type F1 (positive class, multi-type, macro): 0.020135690867398186
Information Type Accuracy (overall, multi-type, macro): 0.908220534829977
High Importance Information Type Precision (positive class, multi-type, macro): 0.08333333333333333
High Importance Information Type Recall (positive class, multi-type, macro): 0.018518518518518517
High Importance Information Type F1 (positive class, multi-type, macro): 0.0303030303030303
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9803290414878396
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0063607977802409565
Low Importance Information Type Recall (positive class, multi-type, macro): 0.06984126984126984
Low Importance Information Type F1 (positive class, multi-type, macro): 0.011420828493999224
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8464132434089515

typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.05800109110747408
Information Type Recall (positive class, multi-type, macro): 0.1254079967360261
Information Type F1 (positive class, multi-type, macro): 0.070095249630018
Information Type Accuracy (overall, multi-type, macro): 0.9171723798589471
High Importance Information Type Precision (positive class, multi-type, macro): 0.08333333333333333
High Importance Information Type Recall (positive class, multi-type, macro): 0.09883720930232558
High Importance Information Type F1 (positive class, multi-type, macro): 0.08656716417910448
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9772565742714997
Low Importance Information Type Precision (positive class, multi-type, macro): 0.03628774062816616
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1481829573934837
Low Importance Information Type F1 (positive class, multi-type, macro): 0.05597646573080099
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8656716417910448

whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.21352239910061427
Information Type Recall (positive class, multi-type, macro): 0.13563039451367048
Information Type F1 (positive class, multi-type, macro): 0.15525339770247937
Information Type Accuracy (overall, multi-type, macro): 0.8545787545787545
High Importance Information Type Precision (positive class, multi-type, macro): 0.16225490196078432
High Importance Information Type Recall (positive class, multi-type, macro): 0.10164141414141414
High Importance Information Type F1 (positive class, multi-type, macro): 0.12254901960784315
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8777777777777778
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2574659680776114
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16476380626131873
Low Importance Information Type F1 (positive class, multi-type, macro): 0.18328572178359614
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8346938775510203

UCD_CS_R2**Task 2**

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Run: UCD_CS_R2 (UCD_CS_R2.2020A.task1.run)

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

Request-GoodsServices				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12219
Request-GoodsServices	0.00	0.00	0.00	8
avg / total	1.00	1.00	1.00	12227
Request-SearchAndRescue				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12219
Request-SearchAndRescue	0.00	0.00	0.00	8
avg / total	1.00	1.00	1.00	12227
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12199
Request-InformationWanted	0.00	0.00	0.00	28
avg / total	1.00	0.99	0.99	12227
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12217
CallToAction-Volunteer	0.11	0.20	0.14	10
avg / total	1.00	1.00	1.00	12227
CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	12112

UCD_CS_R2**Task 2**

CallToAction-MovePeople	0.47	0.41	0.44	115
avg / total	0.99	0.99	0.99	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.97	0.99	12190
Report-FirstPartyObservation	0.02	0.14	0.03	37
avg / total	0.99	0.97	0.98	12227

Report-Location				
	precision	recall	f1-score	support
Other Classes	0.75	0.86	0.80	8789
Report-Location	0.42	0.26	0.32	3438
avg / total	0.66	0.69	0.67	12227

Report-EmergingThreats				
	precision	recall	f1-score	support
Other Classes	0.95	0.93	0.94	11422
Report-EmergingThreats	0.22	0.28	0.24	805
avg / total	0.90	0.89	0.89	12227

Report-NewSubEvent				
	precision	recall	f1-score	support
Other Classes	0.97	0.97	0.97	11831
Report-NewSubEvent	0.19	0.19	0.19	396
avg / total	0.95	0.95	0.95	12227

Report-MultimediaShare				
	precision	recall	f1-score	support
Other Classes	0.86	0.71	0.78	9860
Report-MultimediaShare	0.31	0.53	0.39	2367

UCD_CS_R2**Task 2**

avg / total	0.75	0.68	0.70	12227
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Report-ServiceAvailable

precision	recall	f1-score	support
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Other Classes	1.00	0.99	0.99	12188
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Report-ServiceAvailable	0.04	0.10	0.06	39
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avg / total	0.99	0.99	0.99	12227
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Other-Advice

precision	recall	f1-score	support
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Other Classes	0.99	0.98	0.99	12087
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Other-Advice	0.16	0.31	0.21	140
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avg / total	0.98	0.97	0.98	12227
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Other-Any

precision	recall	f1-score	support
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Other Classes	1.00	1.00	1.00	12227
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avg / total	1.00	1.00	1.00	12227
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