

UCD_CS_R1

Task 2

TREC-IS 2020-A Task 2 Notebook Evaluator v2.4
Run: UCD_CS_R1 (UCD_CS_R1.2020A.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: 0.48642809750814675

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.19958439741697195
> Information Type Recall (positive class, multi-type, macro): 0.1517044965763436
> Information Type F1 (positive class, multi-type, macro): 0.1530443872507871
> Information Type Accuracy (overall, multi-type, macro): 0.937571956137426
> High Importance Information Type Precision (positive class, multi-type, macro): 0.2734480423245343
> High Importance Information Type Recall (positive class, multi-type, macro): 0.1312335007987182
> High Importance Information Type F1 (positive class, multi-type, macro): 0.16945903200008752
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.976145688503585
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.13627270178191847
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.1692510643857368
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.13897469175138674
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9045087569664326

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): 0.3176552000196695

LATEX

UCD_CS_R1 & 0.4864 & -0.3920 & -0.2106 & 0.1695 & 0.1530 & 0.9376 & 0.1953 & 0.2612 \\

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

Run: UCD_CS_R1 (UCD_CS_R1.2020A.task1.run)

EVALUATION: Information Type Categorization (Multi-type)

Per Event Performance

athensEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.06963659841357683

Information Type Recall (positive class, multi-type, macro): 0.08741258741258742

Information Type F1 (positive class, multi-type, macro): 0.07304710793082886

Information Type Accuracy (overall, multi-type, macro): 0.9651975931045699

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): 0.9943622269203664

Low Importance Information Type Precision (positive class, multi-type, macro): 0.12932511133949984

Low Importance Information Type Recall (positive class, multi-type, macro): 0.16233766233766236

Low Importance Information Type F1 (positive class, multi-type, macro): 0.13565891472868216

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9401993355481727

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): 0.9929473511563063

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): 0.9971570717839374

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): 0.9893390191897654

brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.10887599186831924

Information Type Recall (positive class, multi-type, macro): 0.05701673260760705

Information Type F1 (positive class, multi-type, macro): 0.07469156966777274

Information Type Accuracy (overall, multi-type, macro): 0.9233981050264976

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): 0.9933890048712596

Low Importance Information Type Precision (positive class, multi-type, macro): 0.20219827061259288

Low Importance Information Type Recall (positive class, multi-type, macro): 0.10588821769984166

Low Importance Information Type F1 (positive class, multi-type, macro): 0.13871291509729222

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8634059051595587

daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.07973664441326132
Information Type Recall (positive class, multi-type, macro): 0.06694139194139194
Information Type F1 (positive class, multi-type, macro): 0.07226919864462081
Information Type Accuracy (overall, multi-type, macro): 0.9599999999999999
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): 0.9996491228070176
Low Importance Information Type Precision (positive class, multi-type, macro): 0.1480823396246282
Low Importance Information Type Recall (positive class, multi-type, macro): 0.12431972789115646
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13421422605429578
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.926015037593985

elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.06604054859868813
Information Type Recall (positive class, multi-type, macro): 0.07107011780818986
Information Type F1 (positive class, multi-type, macro): 0.06819395293971565
Information Type Accuracy (overall, multi-type, macro): 0.9638512934726744
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): 0.9981440237564959
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12264673311184938
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1319873616437812
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12664591260232907
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9344575246579703

gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.11179205409974641
Information Type Recall (positive class, multi-type, macro): 0.0501768996914628
Information Type F1 (positive class, multi-type, macro): 0.06774766395448485
Information Type Accuracy (overall, multi-type, macro): 0.9631751227495909
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): 0.999645390070922
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2076138147566719
Low Importance Information Type Recall (positive class, multi-type, macro): 0.09318567085557376
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12581709020118614
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9319148936170213

hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.11042019962008429
Information Type Recall (positive class, multi-type, macro): 0.213003663003663

Information Type F1 (positive class, multi-type, macro): 0.07210297150714232
Information Type Accuracy (overall, multi-type, macro): 0.9320977529932752
High Importance Information Type Precision (positive class, multi-type, macro): 0.16843971631205676
High Importance Information Type Recall (positive class, multi-type, macro): 0.061111111111111116
High Importance Information Type F1 (positive class, multi-type, macro): 0.05888888888888889
High Importance Information Type Accuracy (overall, multi-type, macro): 0.96090973702914
Low Importance Information Type Precision (positive class, multi-type, macro): 0.06068918531267929
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3431972789115646
Low Importance Information Type F1 (positive class, multi-type, macro): 0.08342932803707381
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9074017666768199

indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.2814156814156814
Information Type Recall (positive class, multi-type, macro): 0.13653018979141296
Information Type F1 (positive class, multi-type, macro): 0.17506278378505027
Information Type Accuracy (overall, multi-type, macro): 0.9039279869067105
High Importance Information Type Precision (positive class, multi-type, macro): 0.39991181657848324
High Importance Information Type Recall (positive class, multi-type, macro): 0.19150506638714182
High Importance Information Type F1 (positive class, multi-type, macro): 0.2504610203918005
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9035460992907801
Low Importance Information Type Precision (positive class, multi-type, macro): 0.17984756556185127
Low Importance Information Type Recall (positive class, multi-type, macro): 0.08940886699507389
Low Importance Information Type F1 (positive class, multi-type, macro): 0.11043572383640723
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9042553191489363

keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.11066220213729791
Information Type Recall (positive class, multi-type, macro): 0.10591846694146456
Information Type F1 (positive class, multi-type, macro): 0.07915058139873415
Information Type Accuracy (overall, multi-type, macro): 0.8794019279952784
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): 0.9599317988064792
Low Importance Information Type Precision (positive class, multi-type, macro): 0.20551551825498185
Low Importance Information Type Recall (positive class, multi-type, macro): 0.19670572431986275
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14699393688336343
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8103763244428206

myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.11750194008258526
Information Type Recall (positive class, multi-type, macro): 0.15281328840650873
Information Type F1 (positive class, multi-type, macro): 0.09482319390748126
Information Type Accuracy (overall, multi-type, macro): 0.9441898527004912
High Importance Information Type Precision (positive class, multi-type, macro): 0.03225806451612903
High Importance Information Type Recall (positive class, multi-type, macro): 0.14285714285714285
High Importance Information Type F1 (positive class, multi-type, macro): 0.05263157894736842

High Importance Information Type Accuracy (overall, multi-type, macro): 0.9585106382978724
Low Importance Information Type Precision (positive class, multi-type, macro): 0.19056811913954771
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16134712744882235
Low Importance Information Type F1 (positive class, multi-type, macro): 0.13098743530186369
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9319148936170212

papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.2821205821205821
Information Type Recall (positive class, multi-type, macro): 0.15482665482665484
Information Type F1 (positive class, multi-type, macro): 0.17536787004780036
Information Type Accuracy (overall, multi-type, macro): 0.8803992428153502
High Importance Information Type Precision (positive class, multi-type, macro): 0.26126126126126126
High Importance Information Type Recall (positive class, multi-type, macro): 0.19318181818181818
High Importance Information Type F1 (positive class, multi-type, macro): 0.2080867850098619
High Importance Information Type Accuracy (overall, multi-type, macro): 0.946681580909769
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3
Low Importance Information Type Recall (positive class, multi-type, macro): 0.12195080052222909
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1473230857946047
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8235858101629914

siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.14538376914614537
Information Type Recall (positive class, multi-type, macro): 0.07956398440269408
Information Type F1 (positive class, multi-type, macro): 0.08321678321678322
Information Type Accuracy (overall, multi-type, macro): 0.9333008763388511
High Importance Information Type Precision (positive class, multi-type, macro): 0.16666666666666666
High Importance Information Type Recall (positive class, multi-type, macro): 0.01666666666666666
High Importance Information Type F1 (positive class, multi-type, macro): 0.030303030303030304
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9757383966244726
Low Importance Information Type Precision (positive class, multi-type, macro): 0.12714128555712714
Low Importance Information Type Recall (positive class, multi-type, macro): 0.13347597103357473
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1285714285714286
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8969258589511754

typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.0034739454094292804
Information Type Recall (positive class, multi-type, macro): 0.037606837606837605
Information Type F1 (positive class, multi-type, macro): 0.0062271855987999
Information Type Accuracy (overall, multi-type, macro): 0.9123473093430174
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): 0.986409159370528
Low Importance Information Type Precision (positive class, multi-type, macro): 0.0064516129032258064
Low Importance Information Type Recall (positive class, multi-type, macro): 0.06984126984126984
Low Importance Information Type F1 (positive class, multi-type, macro): 0.0115647732549141
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.84886572654813

typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.07207345172812799
Information Type Recall (positive class, multi-type, macro): 0.1254079967360261
Information Type F1 (positive class, multi-type, macro): 0.07820405304012645
Information Type Accuracy (overall, multi-type, macro): 0.9191405609316058
High Importance Information Type Precision (positive class, multi-type, macro): 0.11363636363636365
High Importance Information Type Recall (positive class, multi-type, macro): 0.09883720930232558
High Importance Information Type F1 (positive class, multi-type, macro): 0.10384615384615385
High Importance Information Type Accuracy (overall, multi-type, macro): 0.978322672352523
Low Importance Information Type Precision (positive class, multi-type, macro): 0.036448098663926
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1481829573934837
Low Importance Information Type F1 (positive class, multi-type, macro): 0.05622510949210297
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8684130368565336

whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.2436247086247086
Information Type Recall (positive class, multi-type, macro): 0.12983355976946728
Information Type F1 (positive class, multi-type, macro): 0.16167704989567339
Information Type Accuracy (overall, multi-type, macro): 0.8695970695970696
High Importance Information Type Precision (positive class, multi-type, macro): 0.19545454545454546
High Importance Information Type Recall (positive class, multi-type, macro): 0.09785353535353536
High Importance Information Type F1 (positive class, multi-type, macro): 0.12791375291375293
High Importance Information Type Accuracy (overall, multi-type, macro): 0.8984126984126983
Low Importance Information Type Precision (positive class, multi-type, macro): 0.2849134199134199
Low Importance Information Type Recall (positive class, multi-type, macro): 0.15724500926883753
Low Importance Information Type F1 (positive class, multi-type, macro): 0.19061701873731948
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8448979591836735

UCD_CS_R1**Task 2**

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

Run: UCD_CS_R1 (UCD_CS_R1.2020A.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	1.00	1.00	12227

CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12217
CallToAction-Volunteer	0.00	0.00	0.00	10
avg / total	1.00	1.00	1.00	12227

CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	12112

UCD_CS_R1**Task 2**

CallToAction-MovePeople	0.96	0.39	0.56	115
avg / total	0.99	0.99	0.99	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.98	0.99	12190
Report-FirstPartyObservation	0.02	0.14	0.04	37
avg / total	0.99	0.98	0.99	12227

Report-Location				
	precision	recall	f1-score	support
Other Classes	0.75	0.87	0.80	8789
Report-Location	0.43	0.25	0.32	3438
avg / total	0.66	0.69	0.67	12227

Report-EmergingThreats				
	precision	recall	f1-score	support
Other Classes	0.95	0.96	0.95	11422
Report-EmergingThreats	0.27	0.22	0.24	805
avg / total	0.90	0.91	0.91	12227

Report-NewSubEvent				
	precision	recall	f1-score	support
Other Classes	0.97	0.99	0.98	11831
Report-NewSubEvent	0.39	0.12	0.18	396
avg / total	0.95	0.97	0.96	12227

Report-MultimediaShare				
	precision	recall	f1-score	support
Other Classes	0.86	0.73	0.79	9860
Report-MultimediaShare	0.31	0.50	0.38	2367

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avg / total	0.75	0.68	0.71	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	0.02	0.05	0.03	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	0.99	0.99	12087
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Other-Advice	0.20	0.30	0.24	140
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avg / total	0.98	0.98	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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