

UCD_CS_R1

task1

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4
Run: UCD_CS_R1 (UCD_CS_R1.2020A.task1.run)

EVALUATOR: Alerting 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: 0.4865924961163198

EVALUATOR: Information Type Categorization
Overall performance

> Information Type Precision (positive class, multi-type, macro): 0.19166048977162975
> Information Type Recall (positive class, multi-type, macro): 0.2330624477286892
> Information Type F1 (positive class, multi-type, macro): 0.17181325582987383
> Information Type Accuracy (overall, multi-type, macro): 0.8977999509282735
> High Importance Information Type Precision (positive class, multi-type, macro): 0.2734480423245343
> High Importance Information Type Recall (positive class, multi-type, macro): 0.12867466815497655
> High Importance Information Type F1 (positive class, multi-type, macro): 0.1673942001270874
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9759412229764727
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.16583284159702832
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.26602700969933524
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.17320874710443798
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8731237597551581

EVALUATOR: Information Priority Level
Overall Performance

> Priority Label Prediction (F1, macro): 0.2630375260452526
> Priority Label Prediction High Importance (F1, macro): 0.22914557646659017
> Priority Label Prediction Low Importance (F1, macro): 0.2737402469648303

LATEX

UCD_CS_R1 & 0.4866 & -0.3920 & -0.2106 & 0.1674 & 0.1718 & 0.8978 & 0.2291 & 0.2630 \\

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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): 0.08201298478755716
Information Type Recall (positive class, multi-type, macro): 0.07883992869875224
Information Type F1 (positive class, multi-type, macro): 0.07114328144285663
Information Type Accuracy (overall, multi-type, macro): 0.9017336152219874
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): 0.107911822088891
Low Importance Information Type Recall (positive class, multi-type, macro): 0.10373674828783189
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09360958084586399
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8724824746856571

baltimoreFlashFlood2020

Information Type Precision (positive class, multi-type, macro): 0.03984674329501916
Information Type Recall (positive class, multi-type, macro): 0.022222222222222223
Information Type F1 (positive class, multi-type, macro): 0.02853223593964335
Information Type Accuracy (overall, multi-type, macro): 0.9529211087420043
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): 0.0524299253881831
Low Importance Information Type Recall (positive class, multi-type, macro): 0.029239766081871347
Low Importance Information Type F1 (positive class, multi-type, macro): 0.03754241571005704
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9389518572550781

brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.18814075561413685
Information Type Recall (positive class, multi-type, macro): 0.1257444515885634
Information Type F1 (positive class, multi-type, macro): 0.14341331340220934
Information Type Accuracy (overall, multi-type, macro): 0.8688100208768266
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): 0.2475536258080748
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16545322577442553
Low Importance Information Type F1 (positive class, multi-type, macro): 0.18870172816080175

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Low Importance Information Type Accuracy (overall, multi-type, macro): 0.829469289089111

daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.07551248097976049

Information Type Recall (positive class, multi-type, macro): 0.12404943803512164

Information Type F1 (positive class, multi-type, macro): 0.07190812856282612

Information Type Accuracy (overall, multi-type, macro): 0.9243789473684211

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): 0.9978947368421052

Low Importance Information Type Precision (positive class, multi-type, macro): 0.09935852760494801

Low Importance Information Type Recall (positive class, multi-type, macro): 0.1632229447830548

Low Importance Information Type F1 (positive class, multi-type, macro): 0.09461595863529752

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9011634349030471

elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.11206016980486119

Information Type Recall (positive class, multi-type, macro): 0.1929579776536046

Information Type F1 (positive class, multi-type, macro): 0.11202706979248664

Information Type Accuracy (overall, multi-type, macro): 0.934521158129176

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): 0.14744759184850156

Low Importance Information Type Recall (positive class, multi-type, macro): 0.253892075860006

Low Importance Information Type F1 (positive class, multi-type, macro): 0.1474040392006403

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9144297268784434

gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.177796772837077

Information Type Recall (positive class, multi-type, macro): 0.1510754473869016

Information Type F1 (positive class, multi-type, macro): 0.14991770099175947

Information Type Accuracy (overall, multi-type, macro): 0.9417872340425535

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): 0.23394312215404872

Low Importance Information Type Recall (positive class, multi-type, macro): 0.1987834834038179

Low Importance Information Type F1 (positive class, multi-type, macro): 0.19726013288389402

Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9235162374020158

hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.10710932990433063

Information Type Recall (positive class, multi-type, macro): 0.23929743219536426

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Information Type F1 (positive class, multi-type, macro): 0.07906002199771557
Information Type Accuracy (overall, multi-type, macro): 0.8963752665245203
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): 0.08774183945978553
Low Importance Information Type Recall (positive class, multi-type, macro): 0.29556679674828634
Low Importance Information Type F1 (positive class, multi-type, macro): 0.0854298535057661
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8759959600493773

indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.22672215392129025
Information Type Recall (positive class, multi-type, macro): 0.15255912709319844
Information Type F1 (positive class, multi-type, macro): 0.1526802754511115
Information Type Accuracy (overall, multi-type, macro): 0.8902127659574468
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): 0.17203068150322934
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1402604094214268
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12180214546984132
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8860022396416573

keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.207323161325695
Information Type Recall (positive class, multi-type, macro): 0.20281698097081854
Information Type F1 (positive class, multi-type, macro): 0.16814450246772897
Information Type Accuracy (overall, multi-type, macro): 0.8692583120204604
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): 0.27279363332328294
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2668644486458139
Low Importance Information Type F1 (positive class, multi-type, macro): 0.22124276640490653
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8406245793511914

myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.2173037347055927
Information Type Recall (positive class, multi-type, macro): 0.2084593268653404
Information Type F1 (positive class, multi-type, macro): 0.1731016916077974
Information Type Accuracy (overall, multi-type, macro): 0.898468085106383
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

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High Importance Information Type Accuracy (overall, multi-type, macro): 0.9585106382978724
Low Importance Information Type Precision (positive class, multi-type, macro): 0.27573920950226544
Low Importance Information Type Recall (positive class, multi-type, macro): 0.22917580602582382
Low Importance Information Type F1 (positive class, multi-type, macro): 0.21114488507951182
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8795072788353863

papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.2723210696095467
Information Type Recall (positive class, multi-type, macro): 0.21249981529404877
Information Type F1 (positive class, multi-type, macro): 0.18011962230261042
Information Type Accuracy (overall, multi-type, macro): 0.86496644295302
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): 0.2758136406669
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2186002354347532
Low Importance Information Type F1 (positive class, multi-type, macro): 0.17128788671084677
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8391616625456259

siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.15569046904690467
Information Type Recall (positive class, multi-type, macro): 0.13234895518597536
Information Type F1 (positive class, multi-type, macro): 0.10645528050699346
Information Type Accuracy (overall, multi-type, macro): 0.8891139240506329
High Importance Information Type Precision (positive class, multi-type, macro): 0.16666666666666666
High Importance Information Type Recall (positive class, multi-type, macro): 0.016666666666666666
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): 0.15222430137750617
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16888020419207284
Low Importance Information Type F1 (positive class, multi-type, macro): 0.1305033595187713
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8617588274483677

typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.03821213148888141
Information Type Recall (positive class, multi-type, macro): 0.1006417493007882
Information Type F1 (positive class, multi-type, macro): 0.018691894596948345
Information Type Accuracy (overall, multi-type, macro): 0.8313304721030045
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): 0.9864091559370528
Low Importance Information Type Precision (positive class, multi-type, macro): 0.05027912038010712
Low Importance Information Type Recall (positive class, multi-type, macro): 0.13242335434314237
Low Importance Information Type F1 (positive class, multi-type, macro): 0.024594598153879405
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.78235825615541

typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.09352108011798237
Information Type Recall (positive class, multi-type, macro): 0.17156595831924143
Information Type F1 (positive class, multi-type, macro): 0.07360427927809648
Information Type Accuracy (overall, multi-type, macro): 0.8367590618336886
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): 0.08716888532270406
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1945329316930043
Low Importance Information Type F1 (positive class, multi-type, macro): 0.06405421362502575
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7920547637751095

whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.2634535501743473
Information Type Recall (positive class, multi-type, macro): 0.1905556347029518
Information Type F1 (positive class, multi-type, macro): 0.2084942645412921
Information Type Accuracy (overall, multi-type, macro): 0.8733333333333332
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): 0.2849269200858637
Low Importance Information Type Recall (positive class, multi-type, macro): 0.21982998186592537
Low Importance Information Type F1 (positive class, multi-type, macro): 0.23394074189735714
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8654135338345865

UCD_CS_R1**task1**

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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	12216
Request-SearchAndRescue	0.00	0.00	0.00	11
avg / total	1.00	1.00	1.00	12227
Request-InformationWanted				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12196
Request-InformationWanted	0.00	0.00	0.00	31
avg / total	0.99	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-Donations				
	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	12197

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CallToAction-Donations	0.07	0.23	0.11	30
avg / total	1.00	0.99	0.99	12227

CallToAction-MovePeople				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	12109
CallToAction-MovePeople	0.96	0.38	0.55	118
avg / total	0.99	0.99	0.99	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.98	0.99	12187
Report-FirstPartyObservation	0.02	0.12	0.04	40
avg / total	0.99	0.98	0.99	12227

Report-ThirdPartyObservation				
	precision	recall	f1-score	support
Other Classes	0.98	0.86	0.92	11890
Report-ThirdPartyObservation	0.04	0.23	0.07	337
avg / total	0.95	0.85	0.89	12227

Report-Weather				
	precision	recall	f1-score	support
Other Classes	0.99	0.88	0.93	12080
Report-Weather	0.04	0.40	0.07	147
avg / total	0.98	0.87	0.92	12227

Report-Location				
	precision	recall	f1-score	support
Other Classes	0.75	0.87	0.80	8786
Report-Location	0.43	0.25	0.32	3441

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avg / total	0.66	0.69	0.67	12227
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Report-EmergingThreats

	precision	recall	f1-score	support
Other Classes	0.95	0.96	0.95	11419
Report-EmergingThreats	0.27	0.22	0.24	808
avg / total	0.90	0.91	0.90	12227

Report-NewSubEvent

	precision	recall	f1-score	support
Other Classes	0.97	0.99	0.98	11828
Report-NewSubEvent	0.39	0.12	0.18	399
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
avg / total	0.75	0.68	0.71	12227

Report-ServiceAvailable

	precision	recall	f1-score	support
Other Classes	1.00	0.99	0.99	12185
Report-ServiceAvailable	0.02	0.05	0.03	42
avg / total	0.99	0.99	0.99	12227

Report-Factoid

	precision	recall	f1-score	support
Other Classes	0.92	0.83	0.87	10563
Report-Factoid	0.33	0.54	0.41	1664
avg / total	0.84	0.79	0.81	12227

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Report-Official

	precision	recall	f1-score	support
Other Classes	0.97	0.97	0.97	11844
Report-Official	0.19	0.20	0.20	383
avg / total	0.95	0.95	0.95	12227

Report-News

	precision	recall	f1-score	support
Other Classes	0.90	0.68	0.78	10583
Report-News	0.20	0.51	0.29	1644
avg / total	0.81	0.66	0.71	12227

Report-CleanUp

	precision	recall	f1-score	support
Other Classes	1.00	0.99	1.00	12220
Report-CleanUp	0.03	0.29	0.06	7
avg / total	1.00	0.99	1.00	12227

Report-Hashtags

	precision	recall	f1-score	support
Other Classes	0.93	0.89	0.91	10806
Report-Hashtags	0.36	0.46	0.40	1421
avg / total	0.86	0.84	0.85	12227

Report-OriginalEvent

	precision	recall	f1-score	support
Other Classes	0.98	0.95	0.97	11999
Report-OriginalEvent	0.00	0.00	0.00	228
avg / total	0.96	0.94	0.95	12227

Other-ContextualInformation

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	precision	recall	f1-score	support
Other Classes	0.96	0.98	0.97	11732
Other-ContextualInformation	0.01	0.01	0.01	495
avg / total	0.92	0.94	0.93	12227

Other-Advice

	precision	recall	f1-score	support
Other Classes	0.99	0.99	0.99	12084
Other-Advice	0.20	0.29	0.24	143
avg / total	0.98	0.98	0.98	12227

Other-Sentiment

	precision	recall	f1-score	support
Other Classes	0.99	0.94	0.97	12055
Other-Sentiment	0.09	0.43	0.15	172
avg / total	0.98	0.93	0.95	12227

Other-Discussion

	precision	recall	f1-score	support
Other Classes	1.00	0.96	0.98	12197
Other-Discussion	0.01	0.20	0.02	30
avg / total	1.00	0.96	0.98	12227

Other-Irrelevant

	precision	recall	f1-score	support
Other Classes	0.43	0.83	0.56	4339
Other-Irrelevant	0.81	0.39	0.53	7888
avg / total	0.67	0.55	0.54	12227