

UCD\_CS\_R2

task1

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4  
Run: UCD\_CS\_R2 (UCD\_CS\_R2.2020A.task1.run)

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EVALUATOR: Alerting Performance  
Overall performance

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> High Importance Alert Worth: -0.39196217494089575  
> Low Importance Alert Worth: -0.02926161543444896  
> Accumulated Alert Worth: -0.21061189518767234  
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EVALUATOR: nDCG and Priority  
Overall performance

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> nDCG: 0.4862386569355364  
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EVALUATOR: Information Type Categorization  
Overall performance

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> Information Type Precision (positive class, multi-type, macro): 0.16588578976147791  
> Information Type Recall (positive class, multi-type, macro): 0.24737489712954366  
> Information Type F1 (positive class, multi-type, macro): 0.17121154995048868  
> Information Type Accuracy (overall, multi-type, macro): 0.8943714729696572  
> High Importance Information Type Precision (positive class, multi-type, macro): 0.15285223201435777  
> High Importance Information Type Recall (positive class, multi-type, macro): 0.1608318304431437  
> High Importance Information Type F1 (positive class, multi-type, macro): 0.15391024714243481  
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9680215915596629  
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.17000165010267376  
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.2747042866094594  
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.17667511925829518  
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8711135407833399  
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EVALUATOR: Information Priority Level  
Overall Performance

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> Priority Label Prediction (F1, macro): 0.2800375260452526  
> Priority Label Prediction High Importance (F1, macro): 0.24997890979992352  
> Priority Label Prediction Low Importance (F1, macro): 0.2895297206490408  
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LATEX

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UCD\_CS\_R2 & 0.4862 & -0.3920 & -0.2106 & 0.1539 & 0.1712 & 0.8944 & 0.2500 & 0.2800 \\  
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TREC-IS 2020-A Task 1 Notebook Evaluator v2.4

Run: UCD\_CS\_R2 (UCD\_CS\_R2.2020A.task1.run)

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EVALUATION: Information Type Categorization (Multi-type)

Per Event Performance  
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athensEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.08030494440847122  
Information Type Recall (positive class, multi-type, macro): 0.0946873440285205  
Information Type F1 (positive class, multi-type, macro): 0.06559757190247255  
Information Type Accuracy (overall, multi-type, macro): 0.8835517970401692  
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): 0.10472455091340196  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.09827282109015856  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.08449771257584864  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.861132747301658

baltimoreFlashFlood2020

Information Type Precision (positive class, multi-type, macro): 0.03984313725490196  
Information Type Recall (positive class, multi-type, macro): 0.021709401709401707  
Information Type F1 (positive class, multi-type, macro): 0.028105117565698477  
Information Type Accuracy (overall, multi-type, macro): 0.951044776119403  
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): 0.05242518059855214  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.028565002249212774  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.03698041784960326  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9372685444955673

brooklynBlockPartyShooting2020

Information Type Precision (positive class, multi-type, macro): 0.18860727968527652  
Information Type Recall (positive class, multi-type, macro): 0.1256885096105758  
Information Type F1 (positive class, multi-type, macro): 0.14354345575897673  
Information Type Accuracy (overall, multi-type, macro): 0.8680584551148225  
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): 0.2481674732701007  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16537961790865235  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.18887296810391674

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

## daytonOhioShooting2020

Information Type Precision (positive class, multi-type, macro): 0.07472620446748283  
Information Type Recall (positive class, multi-type, macro): 0.12321916165437997  
Information Type F1 (positive class, multi-type, macro): 0.07096452094946498  
Information Type Accuracy (overall, multi-type, macro): 0.922105263157895  
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): 0.9936842105263158  
Low Importance Information Type Precision (positive class, multi-type, macro): 0.09832395324668794  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16213047586102627  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.09337436967034866  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8995013850415513

## elPasoWalmartShooting2020

Information Type Precision (positive class, multi-type, macro): 0.11267408339222058  
Information Type Recall (positive class, multi-type, macro): 0.19543037777977543  
Information Type F1 (positive class, multi-type, macro): 0.11203714113473051  
Information Type Accuracy (overall, multi-type, macro): 0.9289086859688197  
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): 0.14825537288450077  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2571452339207571  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.14741729096675069  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9110303598640254

## gilroygarlicShooting2020

Information Type Precision (positive class, multi-type, macro): 0.17733891478891478  
Information Type Recall (positive class, multi-type, macro): 0.15067598102517107  
Information Type F1 (positive class, multi-type, macro): 0.15022859848988643  
Information Type Accuracy (overall, multi-type, macro): 0.9401702127659578  
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): 0.23334067735383526  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.19825786976996196  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.19766920853932424  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.9219484882418815

## hurricaneBarry2020

Information Type Precision (positive class, multi-type, macro): 0.07267086870556064  
Information Type Recall (positive class, multi-type, macro): 0.2497772421716113

Information Type F1 (positive class, multi-type, macro): 0.0723332108495368  
Information Type Accuracy (overall, multi-type, macro): 0.8894669509594884  
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): 0.08637347589280737  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2988297046117693  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.08189169139459705  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8713949051733813

## indonesiaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.2195246025654704  
Information Type Recall (positive class, multi-type, macro): 0.16202715644330326  
Information Type F1 (positive class, multi-type, macro): 0.1583659399823441  
Information Type Accuracy (overall, multi-type, macro): 0.8885106382978725  
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): 0.1699683727012838  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.14263614041557887  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12069773551660018  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8832026875699889

## keralaFloods2020

Information Type Precision (positive class, multi-type, macro): 0.23118692475346286  
Information Type Recall (positive class, multi-type, macro): 0.21102316653782885  
Information Type F1 (positive class, multi-type, macro): 0.1799512694544726  
Information Type Accuracy (overall, multi-type, macro): 0.866700767263427  
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): 0.3041933220440301  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.27766206123398535  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.23677798612430606  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8423744783954772

## myanmarFloods2020

Information Type Precision (positive class, multi-type, macro): 0.2156985241819761  
Information Type Recall (positive class, multi-type, macro): 0.20697784538385897  
Information Type F1 (positive class, multi-type, macro): 0.1692044839685027  
Information Type Accuracy (overall, multi-type, macro): 0.8954042553191489  
High Importance Information Type Precision (positive class, multi-type, macro): 0.027777777777777777  
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): 0.27504191778330184  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.22722648828703243  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.20794959640898464  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8760358342665173

## papuaNewguineaEarthquake2020

Information Type Precision (positive class, multi-type, macro): 0.24158958683811552  
Information Type Recall (positive class, multi-type, macro): 0.22625065704489053  
Information Type F1 (positive class, multi-type, macro): 0.16878934473349466  
Information Type Accuracy (overall, multi-type, macro): 0.8646085011185682  
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): 0.2851742683960167  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2346998278501351  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.18748988819805845  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8456375838926176

## siberianWildfires2020

Information Type Precision (positive class, multi-type, macro): 0.13973124388216612  
Information Type Recall (positive class, multi-type, macro): 0.13377353990358334  
Information Type F1 (positive class, multi-type, macro): 0.10807139201517277  
Information Type Accuracy (overall, multi-type, macro): 0.8857383966244725  
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): 0.15338598571753162  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.16774713897088034  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.12918914679701915  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.859982234066178

## typhoonKrosa2020

Information Type Precision (positive class, multi-type, macro): 0.06358352865127104  
Information Type Recall (positive class, multi-type, macro): 0.10444546147978644  
Information Type F1 (positive class, multi-type, macro): 0.02471968413198624  
Information Type Accuracy (overall, multi-type, macro): 0.8289270386266095  
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): 0.05734674822535663  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.1315802855728184  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.022956522183235493  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7811158798283263

## typhoonLekima2020

Information Type Precision (positive class, multi-type, macro): 0.08571860411039385  
Information Type Recall (positive class, multi-type, macro): 0.17080586330736497  
Information Type F1 (positive class, multi-type, macro): 0.06803590239275908  
Information Type Accuracy (overall, multi-type, macro): 0.8350533049040512  
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): 0.08647184751367612  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.19353280667737738  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.06218392498654474  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.7901470093143308

## whaleyBridgeCollapse2020

Information Type Precision (positive class, multi-type, macro): 0.2526892381107071  
Information Type Recall (positive class, multi-type, macro): 0.1878557030556517  
Information Type F1 (positive class, multi-type, macro): 0.20002188992913314  
Information Type Accuracy (overall, multi-type, macro): 0.8647619047619045  
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): 0.28124744952647224  
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2150812679759372  
Low Importance Information Type F1 (positive class, multi-type, macro): 0.22448700687269837  
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8606516290726818

**UCD\_CS\_R2****task1**

TREC-IS 2020-A Task 1 Notebook Evaluator v2.4

Run: UCD\_CS\_R2 (UCD\_CS\_R2.2020A.task1.run)

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EVALUATION: Information Type Categorization (Multi-type)  
Per Information Type Performance  
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Request-GoodsServices				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12216
Request-GoodsServices	0.00	0.00	0.00	11
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	0.99	0.99	12227
CallToAction-Volunteer				
	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	12214
CallToAction-Volunteer	0.11	0.15	0.12	13
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

**UCD\_CS\_R2****task1**

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	0.99	12109
CallToAction-MovePeople	0.47	0.40	0.43	118
avg / total	0.99	0.99	0.99	12227

Report-FirstPartyObservation				
	precision	recall	f1-score	support
Other Classes	1.00	0.97	0.99	12187
Report-FirstPartyObservation	0.02	0.12	0.03	40
avg / total	0.99	0.97	0.98	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	0.86	0.80	8786
Report-Location	0.42	0.26	0.32	3441



**UCD\_CS\_R2****task1**

avg / total	0.66	0.69	0.67	12227
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## Report-EmergingThreats

	precision	recall	f1-score	support
Other Classes	0.95	0.93	0.94	11419
Report-EmergingThreats	0.22	0.28	0.24	808
avg / total	0.90	0.89	0.89	12227

## Report-NewSubEvent

	precision	recall	f1-score	support
Other Classes	0.97	0.97	0.97	11828
Report-NewSubEvent	0.19	0.19	0.19	399
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
avg / total	0.75	0.68	0.70	12227

## Report-ServiceAvailable

	precision	recall	f1-score	support
Other Classes	1.00	0.99	0.99	12185
Report-ServiceAvailable	0.04	0.10	0.06	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

**UCD\_CS\_R2****task1**

## 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

**UCD\_CS\_R2****task1**

	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	0.98	0.99	12084
Other-Advice	0.16	0.31	0.21	143
avg / total	0.98	0.97	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	0.87	0.57	4339
Other-Irrelevant	0.84	0.35	0.49	7888
avg / total	0.69	0.54	0.52	12227