

Model_Name : Model_ANCOR_balanced_ANAPHORE.model

Train Dataset : balanced_ANAPHORE_Train.xlsx

Test Dataset : balanced_ANAPHORE_Test.xlsx

{'precision_score_pos': 0.944015444015444, 'recall_score_pos': 0.9209039548022598,
'f1_score_pos': 0.9323164918970449, 'precision_score_neg': 0.9283276450511946,
'recall_score_neg': 0.9493891797556719, 'f1_score_neg': 0.9387402933563417}

MUC: R=0.9227871939736346 P=0.9477756286266924 F₁=0.9351145038167938

B³: R=0.9181221605249874 P=0.9407196294976844 F₁=0.929283539157085

CEAF_m: R=0.8963486454652533 P=0.9488778054862843 F₁=0.9218655360387644

CEAF_e: R=0.859072709192946 P=0.958544286046866 F₁=0.906086638551764

BLANC: R=0.8838371314222966 P=0.9386483617602469 F₁=0.9097000903652066

CoNLL-2012 average score: 0.9234948938418809

Model_Name : Model_ANCOR_balanced_DIRECTE.model

Train Dataset : balanced_DIRECTE_Train.xlsx

Test Dataset : balanced_DIRECTE_Test.xlsx

{'precision_score_pos': 0.9171717171717172, 'recall_score_pos': 0.959830866807611,
'f1_score_pos': 0.9380165289256198, 'precision_score_neg': 0.9616161616161616,
'recall_score_neg': 0.9206963249516441, 'f1_score_neg': 0.9407114624505928}

MUC: R=0.959830866807611 P=0.9171717171717172 F₁=0.9380165289256198

B³: R=0.9574541896459705 P=0.9173101673101673 F₁=0.9369523797880848

CEAF_m: R=0.8991282689912827 P=0.9292149292149292 F₁=0.9139240506329114

CEAF_e: R=0.8200708046162591 P=0.9596573245509415 F₁=0.8843900834096912

BLANC: R=0.9402557831319588 P=0.9209324257135222 F₁=0.9285799443344318

CoNLL-2012 average score: 0.9197863307077986

Model_Name : Model_ANCOR_balanced_Full.model

Train Dataset : balanced_Full_Train.xlsx

Test Dataset : balanced_Full_Test.xlsx

{'precision_score_pos': 0.8853383458646616, 'recall_score_pos': 0.8169991326973114,
'f1_score_pos': 0.8497970230040595, 'precision_score_neg': 0.8325396825396826,
'recall_score_neg': 0.8958155422715628, 'f1_score_neg': 0.863019333607569}

MUC: R=0.8196010407632264 P=0.8931947069943289 F₁=0.8548168249660787

B³: R=0.7818069604042842 P=0.8504910598059741 F₁=0.8147039597980739

CEAF_m: R=0.7387440758293838 P=0.8280212483399735 F₁=0.7808390732623669

CEAF_e: R=0.6954840434955073 P=0.830544560870751 F₁=0.7570375651477038

BLANC: R=0.697837406779154 P=0.8307640432084871 F₁=0.7577377208853988

CoNLL-2012 average score: 0.8088527833039522

Model_Name : Model_ANCOR_balanced_INDIRECTE.model

Train Dataset : balanced_INDIRECTE_Train.xlsx

Test Dataset : balanced_INDIRECTE_Test.xlsx

{'precision_score_pos': 0.8397435897435898, 'recall_score_pos': 0.8791946308724832,
'f1_score_pos': 0.8590163934426228, 'precision_score_neg': 0.9086294416243654,
'recall_score_neg': 0.8774509803921569, 'f1_score_neg': 0.8927680798004988}

MUC: R=0.8791946308724832 P=0.8397435897435898 F₁=0.8590163934426229
B³: R=0.879689366786141 P=0.899070385126162 F₁=0.8892742900636519
CEAF_m: R=0.8028673835125448 P=0.8924302788844621 F₁=0.8452830188679246
CEAF_e: R=0.6516450216450217 P=0.8917247664616087 F₁=0.753012025012025
BLANC: R=0.8521841524531344 P=0.9569419799994956 F₁=0.8994032889936028
CoNLL-2012 average score: 0.8337675695061

Model_Name : Model_ANCOR_representative_ANAPHORE.model

Train Dataset : representative_ANAPHORE_Train.xlsx

Test Dataset : representative_ANAPHORE_Test.xlsx

{'precision_score_pos': 0.7693661971830986, 'recall_score_pos': 0.8229755178907722,
'f1_score_pos': 0.7952684258416743, 'precision_score_neg': 0.9804248229904207,
'recall_score_neg': 0.9729282909692085, 'f1_score_neg': 0.9766621719738616}

MUC: R=0.8267419962335216 P=0.7867383512544803 F₁=0.8062442607897153

B³: R=0.8403928058292283 P=0.7722451033508142 F₁=0.8048790438305601

CEAF_m: R=0.7144396551724138 P=0.8055893074119077 F₁=0.7572815533980582

CEAF_e: R=0.5874497831729991 P=0.880066278942191 F₁=0.7045847852558327

BLANC: R=0.7791137107304862 P=0.7877318411577675 F₁=0.7696982847889766

CoNLL-2012 average score: 0.7719026966253694

Model_Name : Model_ANCOR_representative_DIRECTE.model

Train Dataset : representative_DIRECTE_Train.xlsx

Test Dataset : representative_DIRECTE_Test.xlsx

{'precision_score_pos': 0.8736616702355461, 'recall_score_pos': 0.8625792811839323,
'f1_score_pos': 0.8680851063829788, 'precision_score_neg': 0.9849641452694888,
'recall_score_neg': 0.9863331016909891, 'f1_score_neg': 0.9856481481481482}

MUC: R=0.864693446088795 P=0.8891304347826087 F₁=0.8767416934619506
B³: R=0.8587530712530712 P=0.8925624970267827 F₁=0.8753314359672013
CEAF_m: R=0.800982800982801 P=0.8956043956043956 F₁=0.8456549935149157
CEAF_e: R=0.7261748189900682 P=0.9239761689388555 F₁=0.8132204048460207
BLANC: R=0.8054733154874507 P=0.883390774892681 F₁=0.8385014670245673
CoNLL-2012 average score: 0.8550978447583909

Model_Name : Model_ANCOR_representative_Full.model

Train Dataset : representative_Full_Train.xlsx

Test Dataset : representative_Full_Test.xlsx

{'precision_score_pos': 0.7165450121654501, 'recall_score_pos': 0.5108412836079792,
'f1_score_pos': 0.5964556962025316, 'precision_score_neg': 0.9476225854383358,
'recall_score_neg': 0.9776755772731628, 'f1_score_neg': 0.9624145248762084}

MUC: R=0.5255854293148309 P=0.7789203084832905 F₁=0.6276540652511652
B³: R=0.5145111328266975 P=0.7190137181279771 F₁=0.5998104737746456
CEAF_m: R=0.4716646989374262 P=0.7089618456078084 F₁=0.5664657922722439
CEAF_e: R=0.47503756024009247 P=0.7363762753291978 F₁=0.577517573235708
BLANC: R=0.375038329364834 P=0.571165318590385 F₁=0.4024745378563001
CoNLL-2012 average score: 0.6016607040871729

Model_Name : Model_ANCOR_representative_INDIRECTE.model

Train Dataset : representative_INDIRECTE_Train.xlsx

Test Dataset : representative_INDIRECTE_Test.xlsx

{'precision_score_pos': 0.6703296703296703, 'recall_score_pos': 0.40939597315436244,
'f1_score_pos': 0.5083333333333333, 'precision_score_neg': 0.9396847155586018,
'recall_score_neg': 0.9785867237687366, 'f1_score_neg': 0.9587412587412587}

MUC: R=0.40939597315436244 P=0.6703296703296703 F₁=0.5083333333333333
B³: R=0.4799240484724355 P=0.8076131687242799 F₁=0.6020687811692056
CEAF_m: R=0.43010752688172044 P=0.7407407407407407 F₁=0.5442176870748299
CEAF_e: R=0.392993672993673 P=0.7195658801292604 F₁=0.5083500247679352
BLANC: R=0.3001768431008034 P=0.8438254052768117 F₁=0.4424428879055162
CoNLL-2012 average score: 0.5395840464234913

Model_Name : Model_ANCOR_window_ANAPHORE.model

Train Dataset : window_ANAPHORE_Train.xlsx

Test Dataset : window_ANAPHORE_Test.xlsx

{'precision_score_pos': 0.6105769230769231, 'recall_score_pos': 0.45195729537366547,
'f1_score_pos': 0.5194274028629857, 'precision_score_neg': 0.9813548035595375,
'recall_score_neg': 0.990105661760215, 'f1_score_neg': 0.9857108111394869}

MUC: R=0.4733178654292343 P=0.6355140186915887 F₁=0.5425531914893617
B³: R=0.5326563122262047 P=0.6842757656422254 F₁=0.5990207876041493
CEAF_m: R=0.42054958183990443 P=0.7287784679089027 F₁=0.5333333333333333
CEAF_e: R=0.3201657674564079 P=0.8023907505388987 F₁=0.45770176615247044
BLANC: R=0.394303684674868 P=0.7262600888669322 F₁=0.47633709837047855
CoNLL-2012 average score: 0.5330919150819938

Model_Name : Model_ANCOR_window_DIRECTE.model

Train Dataset : window_DIRECTE_Train.xlsx

Test Dataset : window_DIRECTE_Test.xlsx

{'precision_score_pos': 0.7552083333333334, 'recall_score_pos': 0.5942622950819673,
'f1_score_pos': 0.6651376146788991, 'precision_score_neg': 0.9940870811682494,
'recall_score_neg': 0.9971841111976514, 'f1_score_neg': 0.9956331877729258}

MUC: R=0.6108597285067874 P=0.7584269662921348 F₁=0.6766917293233082
B³: R=0.6682590233545648 P=0.8618756371049948 F₁=0.7528176263021124
CEAF_m: R=0.6029723991507431 P=0.8685015290519877 F₁=0.7117794486215538
CEAF_e: R=0.5330031746031746 P=0.8943006285288164 F₁=0.6679237776982138
BLANC: R=0.5245922004867145 P=0.8708920187793427 F₁=0.6464994382819931
CoNLL-2012 average score: 0.6991443777745447

Model_Name : Model_ANCOR_window_Full.model

Train Dataset : window_Full_Train.xlsx

Test Dataset : window_Full_Test.xlsx

{'precision_score_pos': 0.7647058823529411, 'recall_score_pos': 0.48109412711182625,
'f1_score_pos': 0.5906172839506173, 'precision_score_neg': 0.9600693369652696,
'recall_score_neg': 0.9882742798878409, 'f1_score_neg': 0.9739676558329409}

MUC: R=0.5527272727272727 P=0.7768313458262351 F₁=0.6458923512747876
B³: R=0.5512583556543528 P=0.7961299773799774 F₁=0.6514429306794975
CEAF_m: R=0.501072194424589 P=0.7894144144144144 F₁=0.6130301705290774
CEAF_e: R=0.422582865498316 P=0.8058556969967886 F₁=0.5544287195337906
BLANC: R=0.43183283472652517 P=0.8032664936454323 F₁=0.5489029461357178
CoNLL-2012 average score: 0.617254667162692

Model_Name : Model_ANCOR_window_INDIRECTE.model

Train Dataset : window_INDIRECTE_Train.xlsx

Test Dataset : window_INDIRECTE_Test.xlsx

```
{'precision_score_pos': 0.0, 'recall_score_pos': 0.0, 'f1_score_pos': 0.0,  
'precision_score_neg': 0.9951573849878934, 'recall_score_neg': 0.9998813267667478,  
'f1_score_neg': 0.9975137630971409}
```

MUC: R=0.0 P=0.0 F₁=0

B³: R=0.03125 P=0.5 F₁=0.058823529411764705

CEAF_m: R=0.015625 P=0.5 F₁=0.030303030303030304

CEAF_e: R=0.022988505747126436 P=0.6666666666666666 F₁=0.044444444444444446

BLANC: R=0.00024897298643097225 P=0.5 F₁=0.0004976981460744059

CoNLL-2012 average score: 0.03442265795206972

