NLP Project Results

May 16, 2014

1 Classification

1.1 Overall Results

1.1 Overall Results	Fasture	Tamana atiga d	Cogo	DOG	Donondonou	Angua	Classifor	Classifor	A source or	Mione E1	Magna E1
Feature Unit	Feature Type	Lemmatized Sensitive	Case Tags	POS Labels	Dependency Labels	Argument	Classifier Settings	Classifier	Accuracy	Micro F1	Macro F1
Words	Binary	True	False	False	False	False	Linear SVM	C=0.1	0.80443441317	0.80443441317	0.792488246512
Words Words	Binary Binary	True True	False False	False False	False False	False False	Linear SVM Linear SVM	C=0.25 C=0.5	0.815985130112 0.819304301646	0.815985130112 0.819304301646	0.806034462248 0.810537231282
Words	Binary	True	False	False	False	False	Linear SVM	C=0.5 C=0.75	0.819569835369	0.819569835369	0.81142456465
Words	Binary	True	False	False	False	False	Linear SVM	C=1	0.82063197026	0.82063197026	0.812941486323
Words Words	tf-idf tf-idf	True True	False False	False False	False False	False False	Linear SVM Linear SVM	C=0.1 C=0.25	0.843069569835 0.849309612321	0.843069569835 0.849309612321	0.831658155667 0.840091472071
Words	tf-idf	True	False	False	False	False	Linear SVM	C=0.25 C=0.5	0.849309012321	0.849309012321 0.851699415826	0.843933428541
Words	tf-idf	True	False	False	False	False	Linear SVM	C=0.75	0.852230483271	0.852230483271	0.844647455136
Words Words	tf-idf Count	True True	False False	False False	False False	False False	Linear SVM Linear SVM	C=1 C=0.1	0.851433882103 0.791290493893	0.851433882103 0.791290493893	0.843996489387 0.779586493634
Words	Count	True	False	False	False	False	Linear SVM	C=0.1 C=0.25	0.791290493893	0.804168879448	0.793812271928
Words	Count	True	False	False	False	False	Linear SVM	C=0.5	0.809081253319	0.809081253319	0.799490292665
Words Words	Count Count	True True	False False	False False	False False	False False	Linear SVM Linear SVM	C=0.75 C=1	0.810541688794 0.810276155072	0.810541688794 0.810276155072	0.801341254023 0.801333069948
Words	Binary	True	False	True	False	False	Linear SVM	C=1 $C=0.1$	0.801115241636	0.810270133072	0.790008162406
Words	Binary	True	False	True	False	False	Linear SVM	C=0.25	0.816648964418	0.816648964418	0.807249603956
Words Words	Binary Binary	True True	False False	True True	False False	False False	Linear SVM Linear SVM	C=0.5 C=0.75	0.82156133829 0.823552841211	0.82156133829 0.823552841211	0.813338882792 0.815771730262
Words	Binary	True	False	True	False	False	Linear SVM	C=0.75 $C=1$	0.821694105151	0.821694105151	0.81417446997
Words	tf-idf	True	False	True	False	False	Linear SVM	C=0.1	0.840414232608	0.840414232608	0.830214791822
Words Words	tf-idf tf-idf	True True	False False	True True	False False	False False	Linear SVM Linear SVM	C=0.25 C=0.5	0.849840679766 0.851832182687	0.849840679766 0.851832182687	0.84171540895 0.84389597666
Words	tf-idf	True	False	True	False	False	Linear SVM	C=0.75	0.852628783856	0.852628783856	0.845119442474
Words	tf-idf	True	False	True	False	False	Linear SVM	C=1	0.850637280935	0.850637280935	0.843224651537
Words Words	Count Count	True True	False False	True True	False False	False False	Linear SVM Linear SVM	C=0.1 C=0.25	0.78916622411 0.804168879448	0.78916622411 0.804168879448	0.778677744036 0.794949983755
Words	Count	True	False	True	False	False	Linear SVM	C=0.25	0.810276155072	0.810276155072	0.801685329047
Words	Count	True	False	True	False	False	Linear SVM	C=0.75	0.81107275624	0.81107275624	0.802405242578
Words Words and Predicate Argument Components	Count Binary	True True	False False	True False	False False	False False	Linear SVM Linear SVM	C=1 C=0.1	0.811603823686 0.804567180032	$\begin{array}{c} 0.811603823686 \\ 0.804567180032 \end{array}$	0.80302119133 0.792613554178
Words and Predicate Argument Components Words and Predicate Argument Components	Binary	True	False	False	False	False	Linear SVM	C=0.1 C=0.25	0.816914498141	0.816914498141	0.807082970832
Words and Predicate Argument Components	Binary	True	False	False	False	False	Linear SVM	C=0.5	0.819171534785	0.819171534785	0.810344373501
Words and Predicate Argument Components Words and Predicate Argument Components	Binary Binary	True True	False False	False False	False False	False False	Linear SVM Linear SVM	C=0.75 C=1	0.821428571429 0.82156133829	$\begin{array}{c} 0.821428571429 \\ 0.82156133829 \end{array}$	0.813302057182 0.813744630019
Words and Predicate Argument Components	tf-idf	True	False	False	False	False	Linear SVM	C=0.1	0.843733404142	0.843733404142	0.83196777557
Words and Predicate Argument Components	tf-idf	True	False	False	False	False	Linear SVM	C=0.25	0.849176845459	0.849176845459	0.839526785306
Words and Predicate Argument Components Words and Predicate Argument Components	tf-idf tf-idf	True True	False False	False False	False False	False False	Linear SVM Linear SVM	C=0.5 C=0.75	0.851035581519 0.850902814657	0.851035581519 0.850902814657	0.842315834133 0.842513137365
Words and Predicate Argument Components	tf-idf	True	False	False	False	False	Linear SVM	C=1	0.849973446628	0.849973446628	0.841889674061
Words and Predicate Argument Components	Count	True	False	False	False	False	Linear SVM	C=0.1	0.766595857674	0.766595857674	0.751832593866
Words and Predicate Argument Components Words and Predicate Argument Components	Count Count	True True	False False	False False	False False	False False	Linear SVM Linear SVM	C=0.25 C=0.5	0.784917684546 0.792618162507	$\begin{array}{c} 0.784917684546 \\ 0.792618162507 \end{array}$	0.773533552499 0.782297479091
Words and Predicate Argument Components	Count	True	False	False	False	False	Linear SVM	C=0.75	0.795671800319	0.795671800319	0.786094658591
Words and Predicate Argument Components	Count	True	False	False	False	False	Linear SVM	C=1	0.795406266596	0.795406266596	0.786032983502
Words and Predicate Argument Components Words and Predicate Argument Components	Binary Binary	True True	False False	False False	False False	True True	Linear SVM Linear SVM	C=0.1 C=0.25	0.797265002655 0.807886351567	0.797265002655 0.807886351567	0.78523720966 0.797589559005
Words and Predicate Argument Components	Binary	True	False	False	False	True	Linear SVM	C=0.5	0.81492299522	0.81492299522	0.806271048253
Words and Predicate Argument Components	Binary	True	False	False False	False False	True True	Linear SVM	C=0.75	0.817180031864 0.817312798725	0.817180031864	0.808919916423
Words and Predicate Argument Components Words and Predicate Argument Components	Binary tf-idf	True True	False False	False	False	True	Linear SVM Linear SVM	C=1 C=0.1	0.839086563994	$\begin{array}{c} 0.817312798725 \\ 0.839086563994 \end{array}$	0.809347903955 0.827320002462
Words and Predicate Argument Components	tf-idf	True	False	False	False	True	Linear SVM	C=0.25	0.847185342539	0.847185342539	0.837271760299
Words and Predicate Argument Components Words and Predicate Argument Components	tf-idf tf-idf	True True	False False	False False	False False	True True	Linear SVM Linear SVM	C=0.5 C=0.75	0.847450876261 0.849176845459	0.847450876261 0.849176845459	0.838293099646 0.840358582814
Words and Predicate Argument Components Words and Predicate Argument Components	tf-idf	True	False	False	False	True	Linear SVM	C=0.75	0.849309612321	0.849309612321	0.84066847855
Words and Predicate Argument Components	Count	True	False	False	False	True	Linear SVM	C=0.1	0.78531598513	0.78531598513	0.773177055761
Words and Predicate Argument Components Words and Predicate Argument Components	Count Count	True True	False False	False False	False False	True True	Linear SVM Linear SVM	C=0.25 C=0.5	0.803903345725 0.808151885289	0.803903345725 0.808151885289	0.79298118157 0.798517584472
Words and Predicate Argument Components Words and Predicate Argument Components	Count	True	False	False	False	True	Linear SVM	C=0.75	0.808948486458	0.808948486458	0.79935412749
Words and Predicate Argument Components	Count	True	False	False	False	True	Linear SVM	C=1	0.809745087626	0.809745087626	0.800304828783
Words and Predicate Argument Components Words and Predicate Argument Components	Binary Binary	True True	False False	True True	False False	False False	Linear SVM Linear SVM	C=0.1 C=0.25	0.802044609665 0.817312798725	$\begin{array}{c} 0.802044609665 \\ 0.817312798725 \end{array}$	0.790873046262 0.808120977076
Words and Predicate Argument Components	Binary	True	False	True	False	False	Linear SVM	C=0.5	0.822092405736	0.822092405736	0.814094592571
Words and Predicate Argument Components	Binary	True	False	True	False	False	Linear SVM	C=0.75	0.824614976102	0.824614976102	0.817088855589
Words and Predicate Argument Components Words and Predicate Argument Components	Binary tf-idf	True True	False False	True True	False False	False False	Linear SVM Linear SVM	C=1 C=0.1	0.824216675518 0.839617631439	0.824216675518 0.839617631439	0.817021614611 0.828752067435
Words and Predicate Argument Components	tf-idf	True	False	True	False	False	Linear SVM	C=0.25	0.847981943707	0.847981943707	0.839062814783
Words and Predicate Argument Components	tf-idf	True	False	True	False	False	Linear SVM	C=0.5	0.853425385024	0.853425385024	0.845569229449
Words and Predicate Argument Components Words and Predicate Argument Components	tf-idf tf-idf	True True	False False	True True	False False	False False	Linear SVM Linear SVM	C=0.75 $C=1$	0.852761550717 0.851964949549	0.852761550717 0.851964949549	0.844977354358 0.844388217746
Words and Predicate Argument Components	Count	True	False	True	False	False	Linear SVM	C=0.1	0.769915029209	0.769915029209	0.756877516925
Words and Predicate Argument Components	Count	True	False	True	False	False	Linear SVM	C=0.25	0.785448751992	0.785448751992	0.775585017051
Words and Predicate Argument Components Words and Predicate Argument Components	Count Count	True True	False False	True True	False False	False False	Linear SVM Linear SVM	C=0.5 C=0.75	0.793149229952 0.793149229952	0.793149229952 0.793149229952	0.784145875618 0.784279196674
Words and Predicate Argument Components	Count	True	False	True	False	False	Linear SVM	C=1	0.794476898566	0.794476898566	0.785876012356
Words and Predicate Argument Components	Binary	True	False	True	False	True	Linear SVM	C=0.1	0.793680297398	0.793680297398	0.782300097416
Words and Predicate Argument Components Words and Predicate Argument Components	Binary Binary	True True	False False	True True	False False	True True	Linear SVM Linear SVM	C=0.25 C=0.5	0.810010621349 0.814524694636	0.810010621349 0.814524694636	0.800606741681 0.806411760921
Words and Predicate Argument Components	Binary	True	False	True	False	True	Linear SVM	C=0.75	0.816117896973	0.816117896973	0.808245344607
Words and Predicate Argument Components	Binary	True	False	True	False	True	Linear SVM	C=1	0.815454062666	0.815454062666	0.807832019243
Words and Predicate Argument Components Words and Predicate Argument Components	tf-idf tf-idf	True True	False False	True True	False False	True True	Linear SVM Linear SVM	C=0.1 C=0.25	0.834041423261 0.845724907063	0.834041423261 0.845724907063	0.822825696682 0.836882541038
Words and Predicate Argument Components	tf-idf	True	False	True	False	True	Linear SVM	C=0.5	0.84824747743	0.84824747743	0.840240823769
Words and Predicate Argument Components	tf-idf	True	False	True	False	True	Linear SVM	C=0.75	0.849176845459	0.849176845459	0.841501136987
Words and Predicate Argument Components Words and Predicate Argument Components	tf-idf Count	True True	False False	True True	False False	True True	Linear SVM Linear SVM	C=1 C=0.1	0.849044078598 0.782527881041	0.849044078598 0.782527881041	0.84170284588 0.770821538047
Words and Predicate Argument Components	Count	True	False	True	False	True	Linear SVM	C=0.25	0.800053106745	0.800053106745	0.790716619014
Words and Predicate Argument Components	Count	True	False	True	False	True	Linear SVM	C=0.5	0.804699946893	0.804699946893	0.795962179476
Words and Predicate Argument Components Words and Predicate Argument Components	Count Count	True True	False False	True True	False False	True True	Linear SVM Linear SVM	C=0.75 $C=1$	0.808151885289 0.808948486458	0.808151885289 0.808948486458	0.799532448943 0.800199282941
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