

	F1-score (accuracy)	number of features	Fit time (in Second)	Predict time (in Second)
Bernoulli Naïve Bayes -- BOW (bag of words) Only letter input 1 gram	0.84879	67708	240 (4 min)	1020 (17 min)
Bernoulli Naïve Bayes -- BOW (bag of words) Letter and numbers 1 gram	0.85250	69035	180 (3 min)	960 (16 min)
LR -- BOW (bag of words) Letter and numbers 1 gram	0.88780	69035	17	3
LR (logistic regression)-- BOW- Only letter input (without numbers and etc.) 1gram	0.88561	27254	10	2
LR BOW Only letter input (1, 4) gram	0.88961	104211	106	7
LR tf-idf Only letter input 1 gram	0.89061	27254	7	2
LR tf-idf Only letter input 1,4 gram	0.89481	104211	95	6
LR BOW Raw input 1 gram	0.88541	27745	29	4
LR	0.89521	166041	54	9

BOW Raw input 1,2 gram				
LR BOW Raw input 1,3 gram	0.89601	290118	114	14
LR BOW Raw input 1,4 gram	0.89521	342886	230	230
LR tf-idf Raw input 1 gram	0.89443	27745	20	6
LR tf-idf Raw input 1,2 gram	0.91027	166041	55	8
LR tf-idf Raw input 1,3 gram	0.91175	290118	110	10
LR tf-idf Raw input 1,4 gram	0.91199	342886	199	20
LR tf-idf Raw input 1,5 gram	0.91203	358250	211	13
LR tf-idf input only with html tags removed 1,3 gram	0.91131			
LR tf-idf input only with html tags removed 1,4 gram	0.91079			

LR tf-idf input with cleanup 1,3 gram	0.91123	284493	116	12
LR tf-idf input with cleanup 1,4 gram	0.91083	334012	169	18
LR tf-idf input with cleanup & SWP (separate word from punctuation) 1,3 gram	0.91135	284955	117	10
LR tf-idf input with cleanup & SWP 1,4 gram	0.91099	333673	166	20
LR tf-idf input with cleanup & lemmatize 1,3 gram	0.91019	283063	108	11
LR tf-idf input with cleanup & lemmatize 1,4 gram	0.91083	334089	178	12
LR tf-idf input with cleanup & NWN (next word negation) 1,3 gram	0.91067	264522	89	9
LR tf-idf input with cleanup &	0.91119	297461	147	11

NWN 1,4 gram				
LR tf-idf input with cleanup & stemming 1,3 gram	0.90907	283182	84	9
LR tf-idf input with cleanup & stemming 1,4 gram	0.90963	333897	142	10
LR tf-idf input with cleanup & lemmatize & SWP 1,3 gram	0.91083	283682	85	8
LR tf-idf input with cleanup & lemmatize & SWP 1,4 gram	0.91095	333997	141	11
LR tf-idf input with cleanup & lemmatize & SWP & NWN 1,3 gram	0.91131	263993	90	9
LR tf-idf input with cleanup & lemmatize & SWP & NWN 1,4 gram	0.91127	298356	132	10
SVM tf-idf	0.91239	1010594	167	13

Raw input 1,4 gram				
SVM tf-idf input with cleanup 1,4 gram	0.91271	987640	155	15
SVM tf-idf input with cleanup & NWN 1,4 gram	0.91295	899187	156	12
SVM tf-idf input with cleanup & lemmatize 1,4 gram	0.91271	987519	171	12
SVM tf-idf input with cleanup & SWP 1,4 gram	0.91307	988012	161	16
SVM tf-idf input with cleanup & lemmatize & SWP 1,4 gram	0.91295	989022	162	15
SVM tf-idf input with cleanup & lemmatize & SWP & NWN 1,4 gram	0.91251	901848	164	13