

HATE SPEECH DETECTION AND INSINCERE QUESTION CLASSIFICATION ABSTRACT **WORD CLUSTERS**

CIQ or Classification of Insincere Question task in FIRE 2019 focuse differentiating proper information seeking questions from different of insincere questions. HASOC shared task attempts for automatic detection of abusive language on Twitter in English, German and H languages. AdaBoost performed best for CIQ task. Our best perform model in HASOC was an ensemble model of SVM, Random Forest a Adaboost classifiers with majority voting.

INTRODUCTION

CIQ - Different toxic, malicious, hate related posts throw the bigge challenges to most community question answering forums. This tas attempts to filter out malicious content from the forum of Quora (https://www.quora.com) that will keep their platform more secured users. The 6 classes include questions related to rhetorical, sexual content, hate speech, hypothetical, others and not insincere content **HASOC** - Social media is a great platform to communicate with pe from different demographic groups. People spend considerable am time on these forums. Recent studies suggest that most of the onl content generated on these platforms contains different forms of a language. Task1 is a binary classification for predicting HOF or NO⁻ is 4 class classification task between HATE, NONE, OFFN, PRFN and deals with classification for targetted insult as NONE, TIN, UNT.

CORPUS DETAILS

#Samples	#Classes	Tasks
899	6	1

CIQ

Language	#Samples	Task1	#Class Task2
English	5852	2	3
German	3819	2	3
Hindi	4665	2	3

HASOC

HYDERABAD

ses on at kinds ic Hindi orming and	Topic 0 with one india rights world hOW he (when) he (when) Topic 3 men women high ?young think british that does	muslims never ? is are questions if Topic 4 know Why americans people ilik	rump ^{girls} cr ake do sex e libe	eat indian ristians?did feel		Topic (you trump irealdon Sohtt trumpisat fucktrum	t aldtrump DS raitor	Topic 1 loctorsfightback doctors world iccor t f f f f f https dhonikeepstheglov	icc
gest ask					HASOC				
					Lang	Task#	Model	Features	F1
	RESU	LTS			EN	1	SVM+RF+	Word	0.77
ed for						2	AB	uni+char2- 5+tweetLength	0.73
al nt.	Model	Feature A s	Accuracy			3			0.75
people	GB+3NN+		2.37		DE	1	SVM+RF+ AB	Word uni+char2-	0.77
nline	RF uni+bi				2	AD	5+tweetLength	0.77	
abusive	Adaboost	6	6.33		HI	1	SVM+RF+ AB	Word uni+char2-5	0.80
OT. Task2						2			0.65
nd task3		CIQ				3			0.74

ses	Task3
	4
	-
	4

FUTURE WORK

Huge amounts of unlabeled questions from Quora can be explored to improve the clustering techniques and improve the classification. We can explore unsupervised techniques on raw tweets for learning a better representation of implicit form of hate speech. Convolutional neural networks (CNN) could be used to model the interactions between character n-grams in the tweets.

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