Neighbor Answers Matter: Sequence Information Gives a Hand to Answer Selection in Community Question Answering

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Abstract

Community question answering for allow people to get answers to their questions from a wide on-line community. The diversity and openness of these communities allow for quick comments interaction which includes both accurate and inaccurate answers to the questions. In this paper we explore the automatic detection of good answers within a thread of comments to a given questions. Our experiments, comparable to the state of the art in the topic, show that considering the relationships among the comments of the whole thread —either in the form of features or in the machine learning model— allows for improving the results by blablabla

- 1 Introduction
- 2 Experiments

Acknowledgments

References

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Table 1: Multiclass setting. All includes all the features, but n-grams; sub includes all the features available in the pipeline, except for LSA; noc is like sub, without context features).

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	Good			Potential				Bad		Overall				
	P	R	F	P	R	F	P	R	F	P	R	F	A	
$\overline{\text{SVM}_{all}}$	74.59	73.02	73.80	15.62	17.96	16.71	71.78	71.43	71.60	54.00	54.14	54.04	67.71	
${\sf SVM}_{sub}$	73.18	75.83	74.48	13.41	13.17	13.29	73.17	70.20	71.65	53.26	53.07	53.14	68.22	
SVM_{noc}	73.33	67.30	70.19	6.56	7.19	6.86	64.69	69.65	67.22	48.19	48.15	48.09	63.31	

Table 2: Binary setting. All includes all the features, but n-grams; sub includes all the features available in the pipeline, except for LSA; noc is like sub, without context features).

	Good			Potential			Bad			Overall			
	P	R	F	P	R	F	P	R	F	P	R	F	A
$\overline{ ext{SVM}_{all}}$													
${\sf SVM}_{sub}$													
SVM_{noc}													
CRF_{all}													
CRF_{sub}													
$LogRef_{all}$													
$LogRef_{sub}$													