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(PhD Student)

I am a PhD student in Computer Science. I am investigating the sentiment analysis algorithms in which the main idea is to detect domain related *opinion words* and *opinion targets* within short texts.

CITI / MultiModal Systems

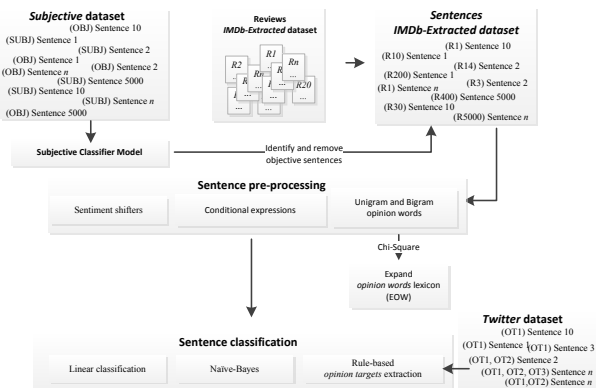


Objectives

Perform an aspect-based sentiment analysis of short texts, i.e., sentences and twitter posts. Within user posts/sentences there can be different sentiments regarding several characteristics of an item. An aspect-based approach focuses on a phrase, and/or word-level classification. Thus, considering an aspect-based analysis we are able to detect the positivity/negativity regarding different characteristics of the targeted item. More specifically, we aim at capturing opinion targets. Additionally, it is proposed a probabilistic analysis to capture the specific opinion words, which can be misclassified or lost when only relying on static sentiment lexicons.

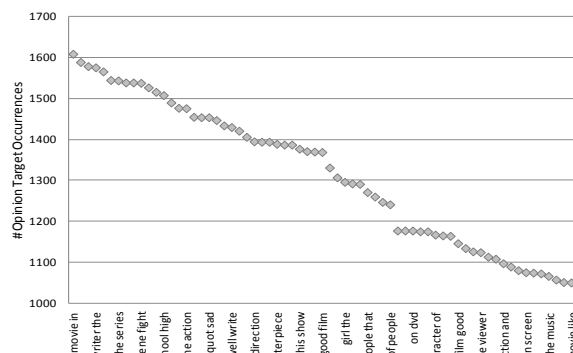
Methodology

The proposed methodology starts by learning how to detect positive and negative sentences with what we shall call from now on a subjective classifier model. The opinion words lexicon is expanded and the sentence polarity is evaluated with a linear and naïve-bayes classifier. Furthermore, with a rule-based approach, opinion targets are extracted through patterns learned on the Twitter corpus.



Expected Results

- Obtain a rule-based evaluation to extract *opinion targets* within humans' opinionated sentences.
- Identify *opinion targets* that have different word-lengths.



O B J	“It was the first film made by Thomas Edison on his motion picture camera.”
	“In this film Melies designs bullet that resembles a rocket.”
S U B J	“The movie’s director knew how to arouse people’s imagination’s and thought this project would work and it did!”
	“Despite this viewers in the 21st century can still relate to these themes and enjoy the story.”

P O S	7961212234 phone this girl ! She is like Louis biggest fan ! 3 live on url rrb.
	Wikileaks set to reveal us ufo war in southern ocean url rrb i m a huge fan of bt this is wrong.
N E G	The republican party is the cancer to America s progress! p2 tcot gop dems topprog du1 teaparty.
	Sarkozy says nato shield intended to protect against Iran url France.

Rule (1-5)	Rule (6-10)	Rule (11-15)
n_v#A	v_in#B	v_v#A
n_n#A	a_n#A	v_n#A
n_in#B	n_in#A	n_a#A
n_n#B	n_v#B	in_dt#B
n #A	a n#B	v dt#B

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