Sentiment Analysis on Amazon Fine Food Review Dataset

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Abstract

some abstract here

1 Introduction

Sentiment analysis is an automated process of understanding opinions from natural language. Nowadays countless reviews are available on internet, but almost all of them are unstructured data, making direct analysis difficult and time-consuming. Sentiment analysis can help address this issue by quantifying the information in the unstructured data, thus the polarity hidden behind the texts can be extracted for further analysis.

Recently sentiment analysis has gained much popularity recently and has been used to resolve many practical issues, such as marketing analysis, customer service, etc. In this report, we apply sentiment analysis on Amazon fine food review dataset from Stanford Network Analysis Project (SNAP) which contains 568,454 reviews from more than 200,000 users to study customer behavior and predict the ratings. There are many methods to implement sentiment analysis when our goal is to predict the level of polarity of opinions (thus can be viewed as a classification problem), such as Logistic Regression, Support Vector Machine, Neural Network.

among which we chose RNN.... since ....

2 Data Cleaning

table example:
figure example:

3 Data Analysis

3.1 Model

3.2 Empirical Evaluation

3.3 Discussion

4 References

Table 1: LaTeX style packages that must not be used.

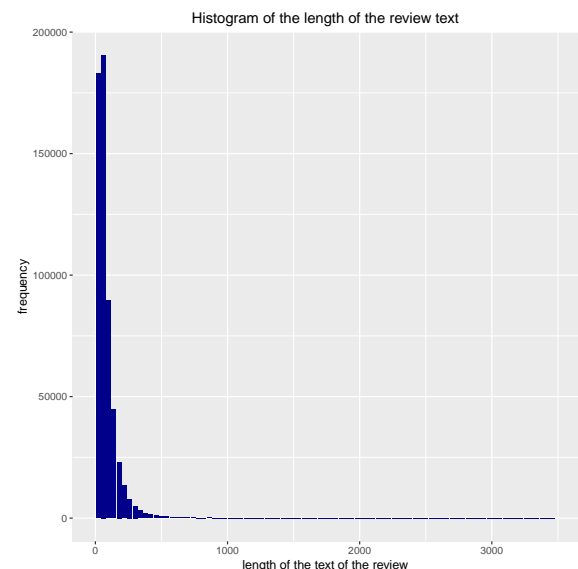|			
authblk	babel	caption	cjk
dvips	epsf	epsfig	euler
float	fullpage	geometry	graphics
hyperref	layout	linespread	lmodern
maltepaper	natbib	navigator	pdfcomment
psfig	pstricks	t1enc	titlesec
tocbind	ulem		

Figure 1: Using the trim and clip commands produces fragile layers that can result in disasters (like this one from an actual paper) when the color space is corrected or the PDF combined with others for the final proceedings. Crop your figures properly in a graphics program – not in LaTeX