

The New Model for Sentiment Classification of Documents Exploiting Fonts

16423 Yota Toyama

Computational Intelligence Laboratory,
Toyota Technological Institute

Sentiment classification of documents

- ▶ A task to classify document into some sentiment classes
- ▶ Do this with machine learning!
- ▶ Purpose: find the best function, $f: \{\text{document}\} \rightarrow \{\text{sentiment label}\}$
- ▶ Example: predicting a number of stars given by a user from the review text

Top Customer Reviews

★★★★★ This is a steal for \$50 as long as you aren't expecting a "Premium" experience.

By [Geoff Hulse](#) on October 2, 2015

Configuration: [With Special Offers](#) | Color: [Black](#) | Digital Storage Capacity: [8](#) | [Verified Purchase](#)

I pre-ordered this for my wife mostly to use as a Kindle E-reader as I figured the tablet would be slow and the display would be less than impressive. I was wrong. What a bargain this little beauty is! This model cost \$49.00 but it comes with ad's displayed on the lock screen when your tablet is dormant. Once your screen times out, they disappear. You can pay \$15.00 up front to get an ad free version so I assumed to unlock the tablet I'd have to spend 15 to 30 seconds looking at an ad for Amazon Prime, or a product from the daily specials section of Amazon.com I abstained from paying for Ad removal and was pleasantly surprised to find that the ads are only on the lock screen and that as soon as I unlock the tablet they disappear immediately.

Here are my pros and cons thus far.

PRO:

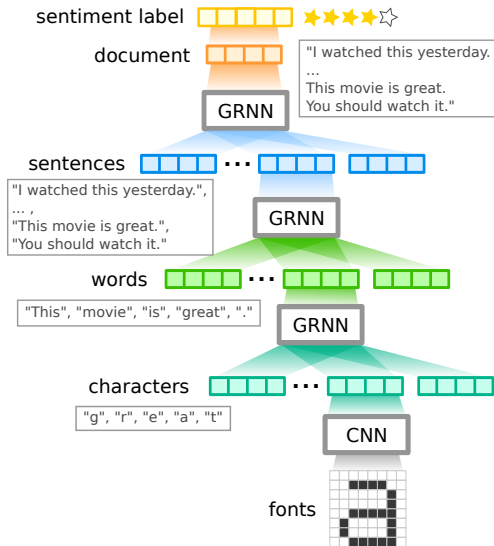
Perfect size for Ebooks, and web surfing to alleviate strain on the eyes from my 5" phone display
nice sturdy casing that gives it a nice heft but still weighs in as one of the lighter tablets on the market

Child Accounts- Amazon allows you to set up this tablet with age restricted access for kids making this a low cost piece of tech that is perfect for school kids and allows mom and dad to ration the amount of time lil Johnny can play Clash of Clans and how much he can hit the of Visa card for.

Battery life thus far, wife was on it for about 5 hours last night and battery was at about 46%

Kindle Integration -this goes without saying but having my ebooks and audible books synced to the tablet is awesome and my Kindle books look great

The proposed method



Results

- ▶ Our model is not working well yet ...
- ▶ The below is the result of the model equal to our model without fonts.
- ▶ The state-of-the-art accuracy: $\sim 94\%$
- ▶ More effort will be needed.

