

Sentiment Analysis using Word Embedding

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Introduction

- Sentiment Analysis
 - quickly understand costumers attitudes.
 - gain overview of a wider pubic opinion about certain topic

Introduction

- What is “Word Embedding”
 - Maps word to vectors of real numbers (word
- Our Model
 - Word embedding + neural network

Data

- IMDB Movie Reviews
 - 25000 Positive Reviews
 - 25000 Negative Reviews

Reviews & Ratings for
Beauty and the Beast [More at IMDbPro »](#)

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[Index](#) 600 reviews in total

418 out of 730 people found the following review useful:



A meandering and dull mess. One of the biggest disappointments in recent years.

★ ★ ★ ★ ★

Author: [Joshua Cimarric-Penczek](#) from Austin, Texas

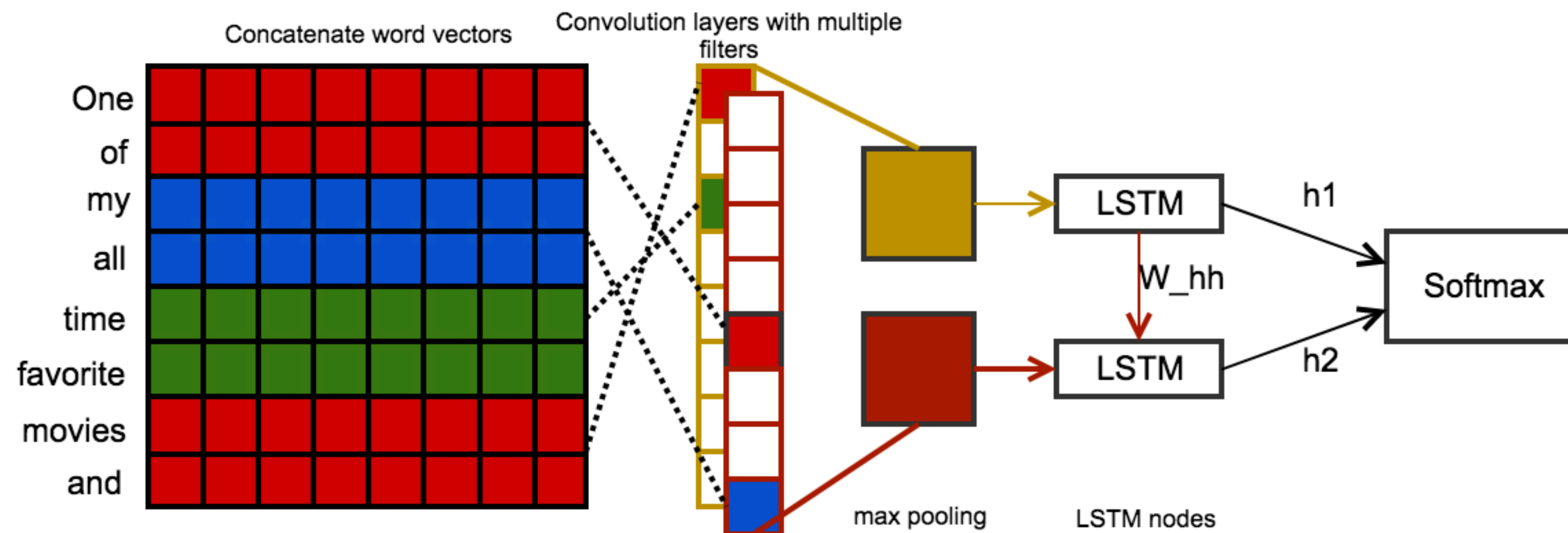
4 March 2017

Sure, I'm a huge film snob who (on the surface) only likes artsy-fartsy foreign films from before the 60's, but that hasn't stopped me from loving Disney's Beauty & The Beast; in fact, it's probably my favorite American animated film and is easily Disney's finest work. It's beautiful, it's breathtaking, it's warm, it's hilarious, it's captivating, and, in Disney fashion, it's magical. When I learned that Disney would be remaking their classic films, B&TB was undeniably the best wrapped package. How could they go wrong?

Oh man, they went wrong.

First thing's first: this film is so flat. The directing was dull and uninteresting throughout the entire film and it honestly felt like one of the Twilight sequels...and then I looked it up and found out that, yes, director Bill Condon was the man behind Breaking Dawn parts 1 & 2. Every shot looks bored and uninterested, which contrasts heavily with the original animated film that was constantly popping with vibrancy. The script too is boring because it's almost a complete remake of the original, though I guess most people won't mind that.

Next: the CGI is horrid. Although I didn't care for The Jungle Book from last year, I could at least admit that the CGI was breathtaking. The same cant be said for this film. Characters like Lumière, Cogsworth, Mrs Potts, and most of the cursed appliances have very strange, lifeless faces that are pretty off putting to be looking at for such a long time. All of the sets too look artificial and fake, especially the town towards the beginning. However, the biggest offender is easily and infuriatingly the character that mattered most: The Beast. The CGI on the Beast's face is so distracting that it completely takes you out of the film. His eyes are completely devoid of soul, and his mouth is a gaping video game black hole of fiction. Klaus Kinski looked much better in the Faerie Tale Theatre episode of Beauty & The Beast, and that was a 1984 TV show episode. But do you know why it looked better? Because it was an actual face with actual eyes, not some video game computerized synthetic monstrosity. When will studios learn that practical effects will always top CGI?



Neural Network Structure

Performance

| Model | Training Accuracy | Cross-Validation Accuracy |
|---------------------|-------------------|---------------------------|
| Linear SVM | 0.93792 | 0.88348 |
| Logistic Regression | 0.93292 | 0.88292 |
| Word Embedding NN | 0.9054 | 0.8872 |

Conclusion

- Word Embedding Based Neural Network
 - Good Accuracy
 - Flexible
 - efficient in online training