Joke detection with neural networks

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Inhaltsverzeichnis

1 Introduction

Humor is a fundamental property of humans. Although scholars are analyzing and studying humor since the Ancient Times, it is until today not completely understood. In contrast to other NLP-related problems, the computational treatment of humor is far behind. Former research in computational humor was mainly carried out on Humor Generation and Humor Detection. As I showed in earlier work (Amin, 2019), none of the humor generators presented so far were able to produce human-like humor. From my investigations I concluded two approaches which seemed promising for the advancement of joke generators – a generative and a restrictive approach. A generative approach to humor generation would aim at exclusively producing humorous output by preselecting suitable topics to joke about. A restrictive approach on the other hand would consist of two systems: A system that produces texts with structural features of jokes and a second humor detection system that works as a filter letting only the humorous texts pass. One approach for such a filter would be a neural network for text classification with the target classes `joke` and `no joke`.

Amin (2019)

1.1 Related Work

1.2 Data Set

Take subset of my joke dataset as positive examples

Create jokes with gpt2-simple as negative examples that are similar to jokes but are not jokes

1.3

Literatur

Amin, M. (2019). *Computational humor - Automatic generation of jokes.* Bachelor Thesis, Leipzig University.