Introducing the NLU Showroom: A NLU demonstrator for the German language

Motivation

- It is becoming more common to use NLP and NLU approaches in software to automate text-based processes.
- Most resources are available in the English language, but there is great unused economic potential in using NLP and NLU in other languages, such as German.
- The NLU Showroom allows developers and researchers to demonstrate NLP/NLU approaches in the German language and to show its potential.
- It consists of demos for different tasks, in which state-of-the-art models are demonstrated, so that users can get a realistic assessment of the capabilities of NLP/NLU.
- The architecture allows the Showroom to be easily extended with further demos and models (German GPT-2 text generation demo next).

Semantic Similarity (word level)

| word2vec [6], glove [5], fastText [1] trained on German Wikipedia Corpus |
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Semantic Similarity (sentence level)

- The German Wikipedia corpus is used for semantic similarity calculations.

Technical Architecture

- Frontend Container: Webserver, Model & Visualization Wrappers, REST

References


Relation Extraction & Classification