Introducing shift-reduce inspired neural processor for explainable sentiment analysis



Towards Explainable and Scalable Aspect-based Sentiment Analysis: A Linear-Time Transition-Based Framework

Michał Wiliński^[1], Mateusz Lango^{[1][2]}, Iwo Naglik^[1]

[1]Poznan University of Technology, Faculty of Computing and Telecommunications, Poznan, Poland [2]Charles University, Faculty of Mathematics and Physics, Prague, Czech Republic



Problem

Aspect Sentiment Triplet Extraction (ASTE) is one of the most challenging problems in sentiment analysis. The task is to extract sentiment-related triplets from a given sentence, containing: aspects ('What'), their sentiment ('How'), and the specific opinion ('Why'). In this framework, 'What' serves to pinpoint the subject or entity under discussion, 'How' assigns the sentiment (e.g. positive, negative, neutral), and 'Why' identifies the specific phrases that can be interpreted as the source of the sentiment.

