

Identification of Speculations in Relation Extraction

Seong-Eun Cho



UNIVERSITY OF BERGEN



- Relation Extraction:
 - Identification of facts
 - Facts involve two or more entities





- Relation Extraction:
 - Identification of facts
 - Facts involve two or more entities

Google Acquires Tenor

Apple Buys Shazam to Boost Apple Music

Daimler takes over CINTEO GmbH

Microsoft devours Nokia and charges ahead with Windows Phone 8.1

Apple looking to buy Jay Z's Tidal

Apple Eyeing Purchase Of Jay-Z's Tidal Music Service – Report

Apple Is Trying To Buy Jay Z's Streaming Service Tidal

Apple reportedly interested in acquiring Jay-Z's Tidal music service

Apple Reportedly Exploring a Tidal Acquisition

Apple Circling Tidal As Possible Acquisition To Bolster Apple Music





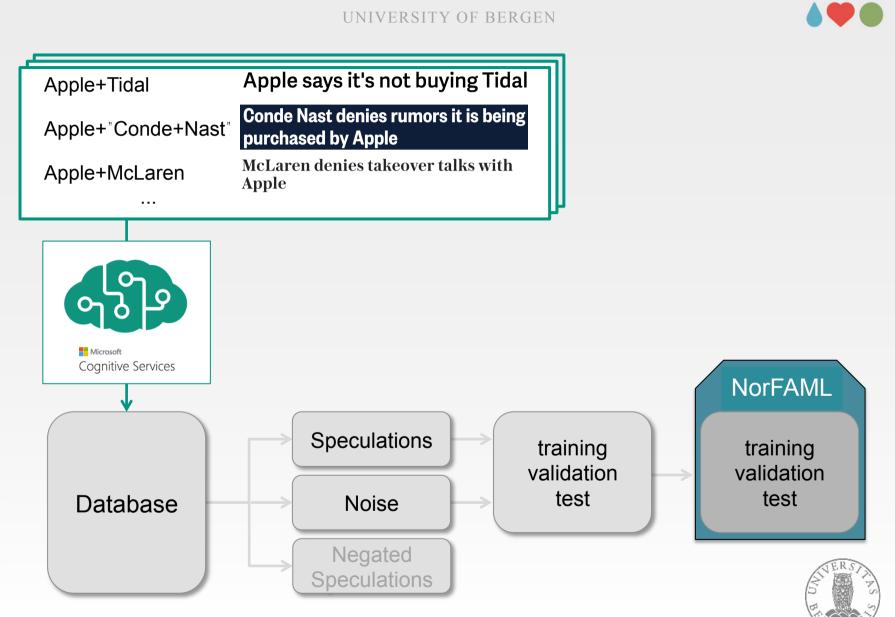


Research Questions

- 1. Which linguistic means are used to express speculations in relation extraction?
- 2. Which of these means can be used across relation types?
- 3. Is it possible to identify these instances automatically with models including neural networks?







UNIVERSITY OF BERGEN



• Tools: Tensorflow and Keras

Models: Convolutional, Recurrent and Recursive Neural Networks

• Syntactic Features: Tree structure, Part-of-speech

• Semantic Features: Word embeddings, Named entity recognition





UNIVERSITY OF BERGEN

