Topic modelling

Keywords: Natural language processing, topic modelling, sentiment analysis

Project description

The goal of this IDP is to apply unsupervised and guided topic modelling to information issued by firms and news providers about future states of the world. The application should be set up in a Google Cloud / AWS environment and should comprise the following features:

- Integration of newsapi and potentially other sources of information
- Data preparation (stemming, lemmatization)
- Topic modelling, unsupervised and with lexical prior
- Sentiment analysis
- Providing output via API

What we are looking for

- Strong analytical and project management skills
- Determination and passion for your areas of expertise
- IT skills required for the IDP
- Interest to learn something about finance
- Team of 2 persons (or one highly motivated individual)

What we offer

- Coaching by a TUM Informatics Alumnus
- Kick-off session including introduction to relevant finance and/or business topics
- Experience with IDPs
- Open dialogue and support
- Potential for publication and/or evaluation of future use cases
- Both single and group projects are possible

Interested?

Please send an e-mail with CV, academic transcript and your preference for this project to marcel.maier@tum.de.

Questions?

In case of any (e.g. topic related) questions, please contact Marcel Maier (marcel.maier@tum or call +49 89 289 25487).