

Master Thesis

News article classification

Create a classification model to categorize news articles into sustainability ESG categories



We are processing massive amounts of news articles related to companies to determine if a company has a positive or negative ESG (Environmental, Social and Governance) impact.

One part of this processing is to determine if an article is related to an environmental, social or governance topic (or even finer granularity of topics).

We currently use a BERT-based model that categorizes the data into 26 ESG-related categories defined by SASB (Sustainability Accounting Standards Board). We want to investigate alternative models and evaluate their performance.

We would like articles to be categorized into at least E, S and G, but possible also more categories, for example SASB categories or categories related to UN sustainability goals.

We propose two techniques that could be applied to this thesis, any other techniques that you can come up with are of course welcome!

- Label a smaller amount of data and use for example data augmentation to increase the labeled samples.
- Find data sources that are known to be related to different topics (E, S and G is probably the finest granularity) and train a model which is then fine-tuned on a smaller set of news articles using transfer learning.

These techniques could of course be combined.

Also unsupervised training and lexicographical solutions could be investigated.

The thesis is carried out at our office in Lund.

We prefer two students applying for the thesis together, but we also accept solo applicants.

Our thesis suggestions are not super strict, and you are very welcome to suggest your own topics.

We look forward to receive your application through info@sanctify.ai. Do not hesitate to contact us with any questions through the same address.

About Sanctify

The world of finance is moving at an ever faster pace and a new paradigm of sustainable investments is emerging. With the use of our AI engine we enable investors to gain insights, improve decisions and accelerate their investment activities. Sanctify delivers accurate predictions and solid analysis with the use of both qualitative and quantitative data sources, which makes it a unique tool for the market.

We are quite a small team who work in an agile and fast-paced manner. We are looking for you who enjoy being in this kind of environment and don't want big company bureaucracy standing in your way of inventing cool things!