

## Master Thesis

### Sentiment analysis from an ESG point-of-view Build a sentiment analysis model to analyze news articles from an ESG point-of-view



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 positive, negative or neutral from an ESG point of view.

We are always looking for new solutions and we would like for you to examine how to improve our methods.

There are already many models out there for sentiment analysis, the twist here is that we need to determine the sentiment while keeping ESG in mind. For example: "Company X has increased its greenhouse gas emissions ". A simple sentiment analysis model would likely say that this is positive simply because of the word "increased" which is generally seen as a positive word, not taking "greenhouse gas" into account at all. In best case it would be said to be neutral when it's clearly negative from an ESG point of view.

We think that labeling should only be a small part of the thesis in order to be able to spend the time on something cool, but at least a test set needs to be labeled in order to test the different solutions.

A bonus challenge is to determine which company is affected if multiple companies are mentioned. For example: "Company X sues company Y over copyright infringement." Is it X, Y or maybe both that should be affected negatively by this article?

We welcome all kinds of solution and would also like to see at least a couple compared to each other. Alternatives could be anything from lexicographical to state-of-the-art machine learning solutions, or a combination.

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](mailto:info@sanctify.ai) . Do not hesitate to contact us with any questions through the same address.

### About Sanctify

The world is facing major environmental and social issues and the financial sector is heading into a shift of paradigm where sustainable investments are growing at an unprecedented rate. Sanctify offers tools tailored for the new paradigm of sustainable finance, whether you want to accelerate your ESG-screening or if you want to track the sustainability performance of your investments – Sanctify has a solution fit for your needs.

We are a quite 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!