





Meet the team



Peter-Paul de Leeuw Business Lead

Peter-Paul holds a MBA from INSEAD and cum laude master's in Economics from the Erasmus University of Rotterdam. He has several years' experience working in strategy consultancy. Within Amberscript Peter-Paul is responsible for Strategy and product development.



Timo Behrens
Technical Lead

Timo holds a degree in Electrical Engineering from TH Köln. As technical lead Timo is responsible for overall development, making sure Amberscript deploys state of the art technology with optimal reliability and quality.



Nithin Holla ML Engineer

Nithin holds a master's degree (cum laude) in Artificial Intelligence from the University of Amsterdam. He is responsible for research and development of Amberscript's natural language processing and speech recognition components.



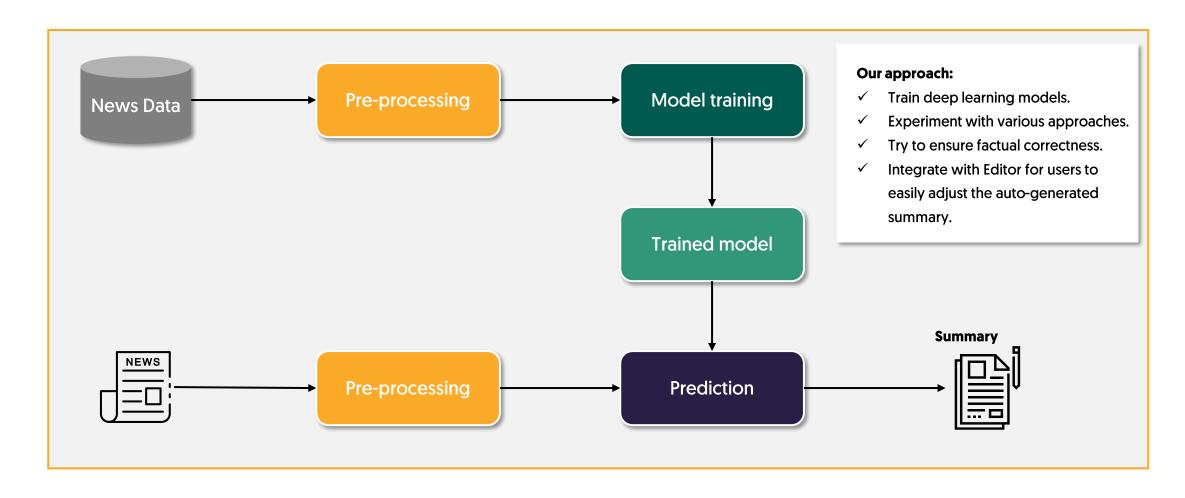
Jolien de Louw Project Manager

Jolien holds a master in Economics from Utrecht University and has 8 years of experience as a management consultant at Accenture. She is responsible for operations management and customer support at Amberscript.





Our technical proposal in a nutshell





Two types of summarization models

1 EXTRACTIVE SUMMARIZATION

Extractive summarization involves concatenating important

Specifications:

VRT data consists of abstractive summaries.

sentences taken from the article into a summary.

• Unsupervised extractive summarization

2 ABSTRACTIVE SUMMARIZATION

Abstractive summarization involves generating novel sentences from information extracted from the article.

Specifications:

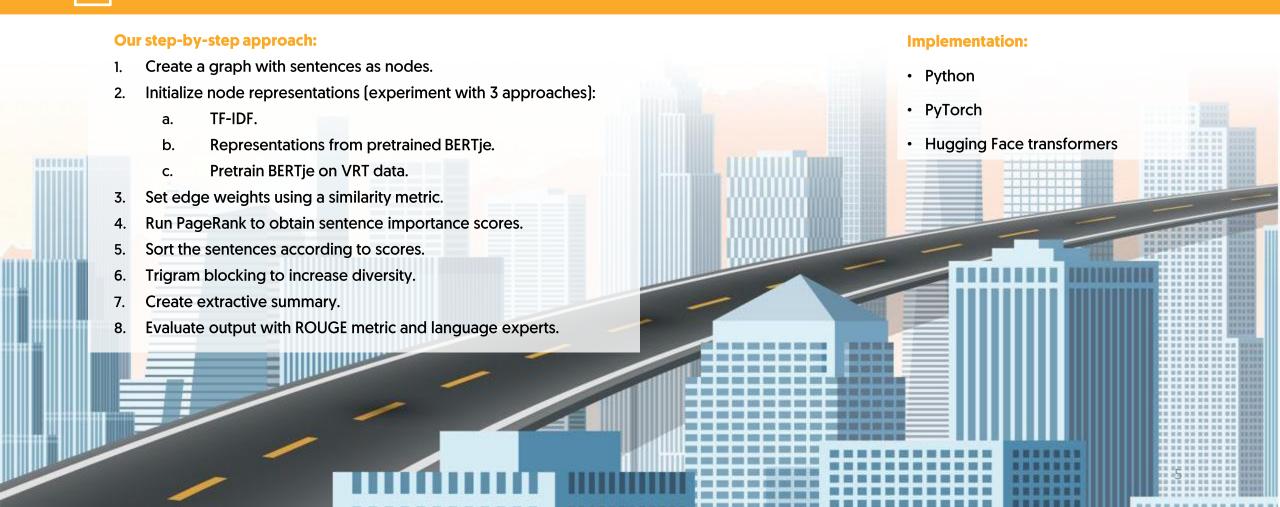
- VRT data consists of abstractive summaries.
- Supervised abstractive summarization.





1. Deep dive into extractive summarization

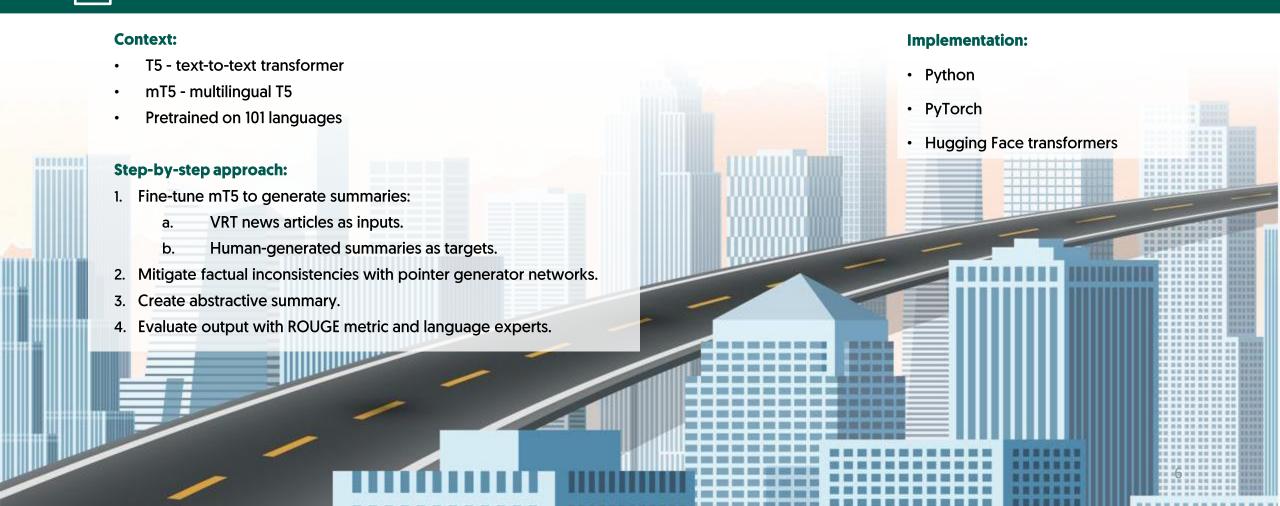
1 EXTRACTIVE SUMMARIZATION





2. Deep dive into abstractive summarization

2 ABSTRACTIVE SUMMARIZATION



Two-stage summarization

We will also experiment with combining the extractive and abstractive summarization models:

1 Select important sentences with unsupervised extractive summarization.

2 Generate abstractive summary.

3 Evaluate output with ROUGE metric and language experts

This approach is helpful for long documents (>1000 words).





Model evaluation & quality assurance

PROJECT MEASURES

- In case of Dutch data scarcity, translate English summarization datasets to Dutch.
- Factual inconsistency will be mitigated by employing pointer generator networks, which allows copying of information from the source article along with generating novel sentences.

QUALITY ASSURANCE

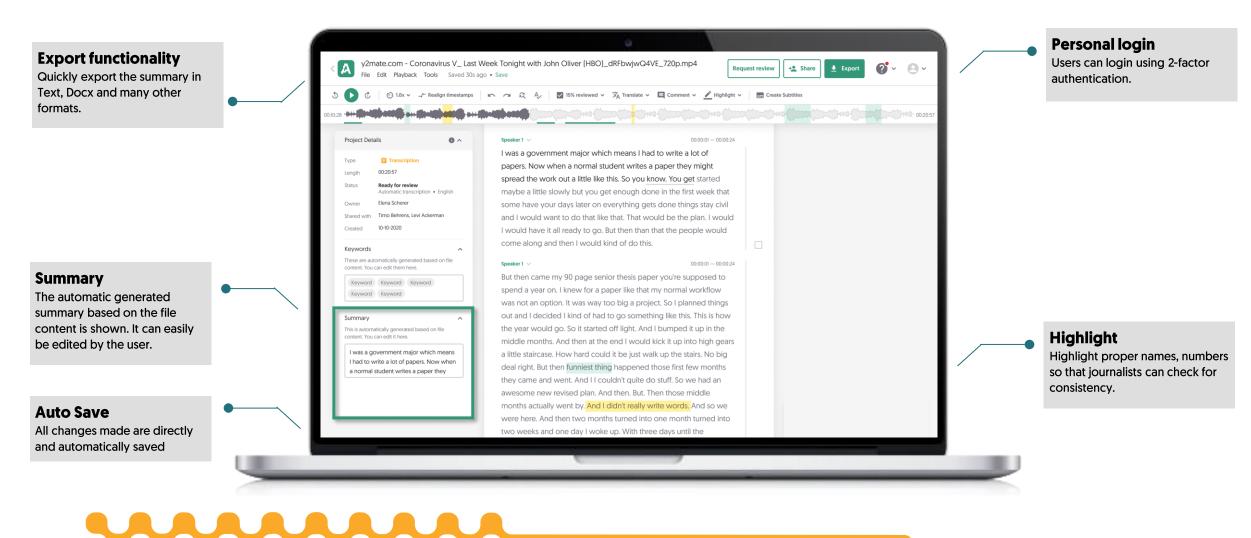
- Evaluation using ROUGE metric.
- Our 500+ native freelance network of language experts.

DATA SECURITY & SERVER UTILIZATION

- For training the models, we only use news data that is already publicly available. Thus, it includes no personal data and does not violate the privacy of any individual/ organization. Next to that, we adhere to the GDPR Privacy by Design principle.
- Data received from VRT will be treated confidentially.
- All project members adhere to strict privacy and security standards and undergo regular training in IT security and privacy.
- Data is stored with a leading cloud-provider on servers in Europe. The servers are certified according to ISO27001 and ISO9001 standards.



An integrated editor to modify generated summaries







QUESTIONS







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