

# Training a Dutch Speech-To-Text Model Incorporating a Custom Vocabulary

- Summer Internship at Radix -

## About Radix

Radix is an Artificial Intelligence solutions provider based in Brussels. Together with our clients, we deliver AI solutions that have a positive impact on the world.

Our mission is to help our clients grow and to improve people's lives. To deliver on our promise, we focus on the combination of three elements:

- Business: creating high value for our clients, their employees and society as a whole
- People: delivering technology that can truly assist people, not replace them
- AI: automating intelligence to achieve the highest impact

Founded in January 2018, Radix is now a team of 25 people that continues to grow. We work with ambitious clients like GSK, Brussels Airport, Atlas Copco, Flanders Investment and Trade, VDAB, Belga, Macadam, House of HR and more.

Visit our website <https://radix.ai> for more information.



## The internship

As of this year, Radix will host several summer internships. Such an internship shows you, among other things, how your learning material is applied in the field and what the best practices are when working on a project, this while being supervised by field experts. Aside from that, it allows you to get a glance of how a growing startup operates from the inside and how other fields such as *Marketing* and *Sales* contribute to this.

### About the project

Paying Speech-to-Text services are often trained on general-purpose datasets. Problems often arise when you need a non-English model and have a need for a specific vocabulary, for example adding cities, names or a domain specific jargon. In this project, you'll choose a Speech-to-Text (STT) implementation and retrain/finetune it on a Dutch Dataset (Corpus Gesproken Nederlands). After that, you will try to add a specific vocabulary to the model.

### What you will learn

In real-life problems, you often will start from an already existing model, find an implementation and adapt it to your objectives/requirements. In this internship, you will learn how this entire process works. Next to that, you will learn to work with audio by doing both the data preparation.

## Your profile

- You are in your third Bachelor or first Master in Computer Science or a related field
- You are fluent in English, both written and verbally
- You have strong analytical skills and are familiar with the basics of machine learning
- You know your way around in Python
- Familiarity with statistical Python tools such as Spacy, TensorFlow, or Torch is a plus
- You are eager to learn and are open to be challenged