

# ADRIAAN LEMMENS

NLP Engineer

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## ABOUT ME

I'm a **Natural Language Processing (NLP)** practitioner with **four years** of experience. My passion lies in enabling computers to better deal with **text**. I can offer expertise in **machine learning, linguistics, search**, and **software engineering**. If you're looking for someone who is scientifically minded, values good engineering, and who's fun to have around – that might just be me!

## SPECIALIZATIONS

Deep Learning  
NLP & Search  
MLOps  
API design

## SOFT SKILLS

Empathy  
Long-term thinking  
Attention to detail  
Teaching

## THINGS THAT I LIKE

TensorFlow 2.0 / Pytorch  
K8s, when it works  
Textbooks  
Remote work and/or quiet offices

## EXPERIENCE

Jan 2021 – Jul 2021 **NLP / Search Engineer**

[Henchman](#)

Took ownership of Henchman's search and NLP backend, successfully delivering new features under fast-changing requirements. Mentored a junior colleague and became an Elasticsearch wizard.

Aug 2019 – Jan 2021 **NLP / ML Engineer**

[Brainjar](#)

Consulted on predominantly NLP-focused projects to deliver end-to-end applications powered by machine learning. Assignments included...

- Productized Document AI
- Predicting airport capacity issues
- Information extraction on templatic documents
- Search consultant
- Mentored interns and spoke at industry-focused events.

Aug 2017 – Aug 2019 **Computational Linguist / NLP Engineer**

[NLP Town](#)

Developed models, algorithms, and services for clients in various sectors. Assignments included...

- Automatic post-editing for machine translation
- Information extraction on healthcare documents
- Knowledge mining on user-submitted text
- Search log analysis

## EDUCATION

2016 – 2017 **MSc. Artificial Intelligence (MAI)**

KU Leuven

Speech & Language Technology. Four-month internship at NLP Town.

2015 – 2016	<b>MA Formal &amp; Computational Linguistics</b>	KU Leuven
	Thesis: A simple pictograph-to-text translation system for cognitively disabled users. Presented at CLIN27 conference.	
2011 – 2015	<b>BA Languages &amp; Literature</b>	KU Leuven
	Specialization: Linguistics	
2006 – 2010	<b>IGCSEs &amp; International Baccalaureate</b>	NAIS, Pudong

## CERTIFICATES

2019	<b>Certified Associate in Python Programming</b>	Python Institute
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## TECH SKILLS

### Natural Language Processing (NLP)

- State of the art + traditional algorithms
- Intelligent document processing
- Machine translation
- Search
- Chatbots
- Dataset creation + custom annotation
- spaCy, Prodigy, flair, transformers, Gensim, AllenNLP, ...

### Machine Learning (ML)

- Deep Learning
  - Custom architectures
  - Transfer learning (e.g. Transformers)
- Shallow models
- Weak supervision, noisy labels, silver data
- Data versioning, model artifact packaging, model serving, data pipelines
- Pytorch, Tensorflow 2.0, scikit-learn, Ray, Dask, ...

### Software Engineering

- Backend architectures
- Service design
- Testing, profiling, reasoning about complexity.
- Object-oriented thinking
- Common NLP/ML abstractions and general design patterns.
- CI/CD pipelines.
- Best practices for operationalizing ML (MLOps).

### Tooling

- Git
- Linux, Kubernetes & Docker
- GCP and AWS

### Databases

- Elasticsearch (advanced)
- PostgreSQL (intermediate)

### Languages

- Expert: Python (near-daily usage since 2015)
- Basic to intermediate: Clojure, Java, Go, Prolog, C (to write Cython), and Nim

## OPEN SOURCE

2021	<b>sopredictable</b> [WIP] Take the excitement out of model persistence.	lemontheme
2020	<b>BentoML</b> Model serving made easy.	BentoML
2020	<b>trefwurd</b> [Archived] Lemmatization rule induction with regex generation and ML	lemontheme
2019	<b>spaCy</b> Industrial-strength NLP	Explosion.ai