ADRIAAN LEMMENS

NLP Researcher

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ABOUT ME

I've been solving problems with **Natural Language Processing** for over **5 years**, drawing on a solid foundation in both **machine learning** and linguistics. I'm always learning new things, not just about NLP, and I get a real kick out of sharing what I've learned with others. If you're looking for someone who is scientifically minded, values good engineering, and can engage a (non-)technical audience – that might just be me!

SPECIALIZATIONS

Deep Learning
NLP & Search
Efficient Python

SOFT SKILLS

Teaching & public speaking
Empathy
Attention to detail

RECENT SKILLS

Web dev & JS
LLM prefix tuning
Neural graph mining

EXPERIENCE

Oct 2021	**Doctoral Researcher**	KU Leuven

- Probing LMs for latent linguistic representations that can be applied to linguistic research.
- Building an end-to-end text analytics web app for researchers in the humanities.

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, BE |

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

| 2015 – 2016 | **MA Formal & Computational Linguistics** | KU Leuven, BE |

Thesis: A simple pictograph–to–text translation system for cognitively disabled users. Presented at CLIN27 conference.

| 2011 – 2015 | **BA Languages & Literature** | KU Leuven, BE |

Specialization: Linguistics

| 2006 – 2010 | **IGCSEs & International Baccalaureate** | NAIS, Pudong, CN |

CERTIFICATES

| 2019 | **Certified Associate in Python Programming** | Python Institute |

TECH SKILLS

Natural Language Processing (NLP)

Wide range of applications · Neural transfer · Linguistic intuition · Fast data generation & annotation · Intimate knowledge of OS libraries · Historical knowledge

Machine Learning (ML)

Deep and shallow · Custom architectures · Mathematical intuition · Data tricks · Model serving · Pytorch

Software Engineering

Backend architectures · Testing, profiling, complexity analysis · OOP · ML abstractions · CI/CD

Tooling

Git · Linux · K8s, Docker · GCP, AWS

Databases

SQLite, PostgreSQL · Elasticsearch

Languages

Python (near-daily usage since 2015) · Javascript (since 2023) · Can translate from Go & C++.

OPEN SOURCE

2023	**django_components** Reusable Django components	EmilStenstrom
2021	**sopredictable** [WIP] Take the excitement out of model persistence.	lemontheme
2020	**BentoML** Model serving made easy.	BentoML
2020	**trefwurd** [Archived] Lemmatization rule induction with regex generation and ML	lemontheme