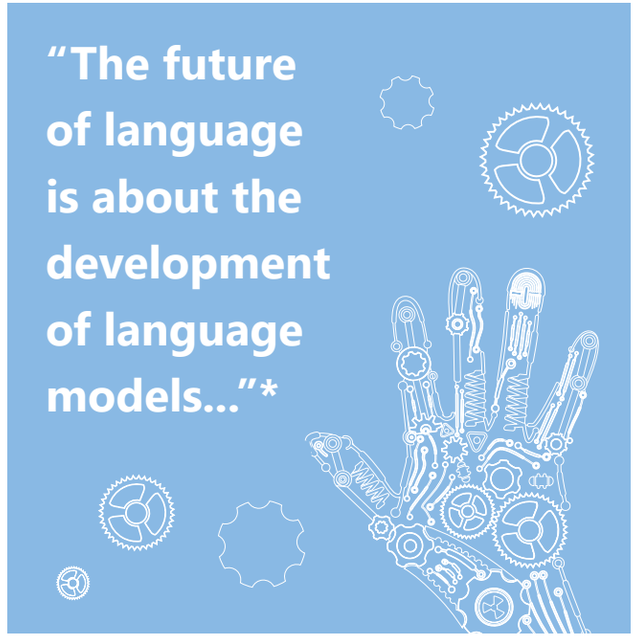
For whom is NLP?

- Do you have a Bachelor's degree in a computer science, data science, communication science, linguistics, or artifi cial intelligence related course of studies and are you ready to adopt new computer science skills?
- Are you interested in digital media and communication, especially in how textual content can be managed, analysed and generated using computer science methods?
- Do you want to automatically access, analyse and understand large amounts of textual and multimodal content and make it usable for humans and machines?
- Do you want to use the latest digital methods from artifi cial intelligence, knowledge graphs, machine learning and deep learning?
- Do you want a course of study that teaches practical skills and involves working with real data?
- Do you want to acquire technical skills and work in an application-oriented manner in interdisciplinary, international teams right from the start?
- Do you want to acquire expertise that will give you access to a broad spectrum of highly demanded occupational fields in automation and artificial intelligence?

"The future of language is about the development of language models..."*



* The quote was generated fully automatically with the OpenAI GPT-2 language model 2, after reading the above text in an English translation.
The sentence ends with "...that can be used to predict the future."

Contact

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UNIVERSITÄT TRIER

Natural Language Processing

Master of Science (M. Sc.)

International Programme in English

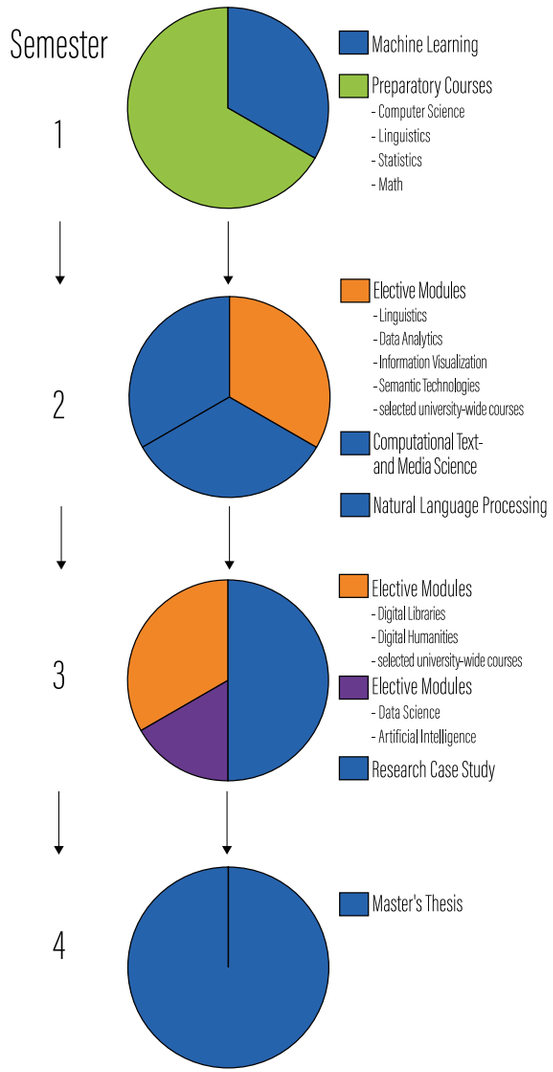
What is taught in NLP?

A Master of Science (M.Sc.) in "Natural Language Processing" (NLP) with a focus on Artificial Intelligence and Computational Linguistics at Trier University provides skills that are in high demand in the modern job market:

- Interdisciplinary: Understanding of modern technical methods of artificial intelligence for the interdisciplinary analysis and generation of language and media, as well as annotation of textual data and their content integration beyond document collections.
- Practical: Ability to develop, implement and use computer science methods using existing software libraries, and to experimentally and theoretically evaluate these methods in various language and media-based application scenarios.
- Reflected: Ability to evaluate these methods and their use in relation to industry, society, politics and science. The NLP degree programme is particularly suitable for those who are interested in language, communication and media as well as in technical and scientific methods.
- Research-oriented: Understanding and skills go beyond its well-established applications towards researching new methods and conducting novel experiments in a fast-growing research area.

International M.Sc. Degree Program

NLP NATURAL LANGUAGE PROCESSING



What professions are open to a graduate?

A degree in NLP provides students with qualifications that are currently in high demand on the labor market from employers in business, public institutions and research institutes. The master's programme specifically prepares for work in research and development.

Algorithmic processing of language and media is in demand both in computer science related areas such as artificial intelligence, machine learning and knowledge representation and in interdisciplinary collaboration with all other disciplines such as engineering, humanities, social sciences, law, economics and medicine.

Primary employers in this field are IT companies, especially in the areas of search engines, media, internet, advertising, social networks and dialogue systems. This ranges from large digital corporations to innovative tech start-ups. However, there is also strong demand from all companies with large digital textual databases that need to be analysed automatically, e.g. for information management inside enterprises, such as maintenance reports, or in customer service.

There is currently also considerable demand from public institutions that work with digitised textual data, such as libraries and public authorities. When graduating with a Master in Natural Language Processing you are specifically suited for a career in academia and in research departments and institutions. This sector is currently looking intensively for qualified personnel, as artificial intelligence has opened up numerous new fields of research.