Natural Language Processing

Exercise – Summer term 2025

tim.hagen@uni-kassel.de

Organization

Communication

- Slides, announcements & materials on the course website [temir.org]
- Questions and communication via Discord and email [discord.gg]
 (please use your full name as the server nickname)



Organization

Exercise

Exercise sheets every second week; programming exercises every other [temir.org]

Exercise Sheets

- Mix of theory questions and toy examples
- The tasks are highly relevant for the exam
- Published Wednesday evening and due Monday evening
- Submit to me personally via Discord or email
- Required for the Studienleistung

Programming Exercises

- Published shortly before the exercise
- Jupyter Notebooks that let you work with the NLP hands on
- Don't need to be submitted

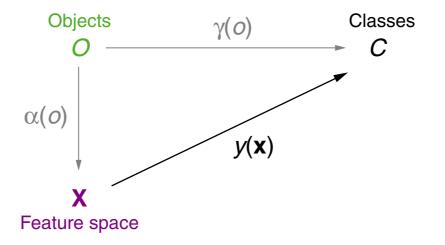
Getting to know you

Do you have prior experience with...

- Natural Language Processing
- Machine Learning
- Deep Learning
- Python
- □ NLTK
- □ spaCy
- PyTorch
- Hugging Face
- □ CNN, RNN, LSTM, Transformer

Classification

ML: Real World and Model World [model formation]



What could be features for NLP?

Tokenization Schemes

- ☐ Character Level
- □ BPE, WordPiece, SentencePiece
- Morpheme Tokenization
- **u** ...