Important dates:

* **11/3-2025:** Important lecture, presentation on different possible topics and exam information
* **13/3-2025:** day 1 of groups presenting project proposals
* **20/3-2025:** Deadline for baseline predictions (???)
* **27/3-2025:** day 2 of groups presenting project proposals
* **3/4-2025:** Written project proposal hand-in date
* **8/4-2025:** Important lecture, how to write a good NLP report (according to Rob)
* **16/5-2025:** 9:00 am, possible early hand-in for preliminary feedback
* **23/5-2025:** final hand-in for the project
* **23/6-2025 – 26/6-2025**: oral exams

Email from Rob 7/3-2025:

Upload slots for your pdfs can be found on LearnIt on the bottom of the page (note that if you want to use slides you have to upload them there so I can merge them together to save a lot of time with connecting laptops) If you want to present without slides, you can e-mail me. The options are 13-03 and 27-03 during  the normal lecture hours (10:00-12:00).

Next Tuesday (11-03) I will present potential project topics/directions. However, you do not have to pick from these, you can also propose your own. The information about the project proposal and final assignment will be added to LearnIt by the end of today, together with the slides for Tuesday.

Note that the presentation is mandatory to start your project, the goals are

* To see what the other groups are doing (so please join at least the full hour of your presentation slot). Note that you can collaborate across groups as well, for example to annotate a dataset together.
* To check whether your direction makes sense, so that you do not have to write a full proposal, do literature research etc.
* To get feedback. E.g. perhaps there is a toolkit or a dataset that can help you out, and save you a lot of time.

Note also that the presentation is just 5 minutes per group, so I would suggest to skip table of contents and extensive background overviews. Focus on what you contribute instead (rule of thumb is that most people need 1 minute per slide).

Exam info:

Time:

* 10 minutes of presentation
* 10-12 minutes individual per person
  + Some questions about the project
  + Focus on 1 random (main) topic from the exam syllabus
  + There are extra topics we turn to if necessary: Tokenization, bias, experimental standards
  + Expect a variety of questions, like:
    - Walk us through algorithm/method X
    - How does method X differ from method Y?
    - What are the benefits of using method X for task Z?
    - How can we best solve Z?
  + What to remember:
    - Main terminology, but more importantly: intuition, reasoning and motivations
    - Often used and basic formulas: RNN, transformers, Kappa, Naive Bayes, Logistic regression, Laplace smoothing, temperature, F1
    - Algorithms and architectures: LSTM, SGD, Viterbi, Min edit distance, ...
    - Skills: Basic POS tagging, regex, ...
    - Strengths, weaknesses and limitations of methods

From the slides (11/3-2025):

Requirements:

* Explore something new (could be a reproduction study, or basically anything else, as long as it’s new)
* Hand in should be max. 5 pgs ACL style files, see link: <https://github.com/acl-org/acl-style-files>
  + References/bibliography and appendix do not count (thank god!)
* Focus: NER (Named Entity Recognition)
* Topic can be anything, but Rob has given us some inspiration. If we want to choose our own topic instead of one of the suggested, we send Rob an email
* All groups are required to implement a Baseline with EWT data

Baseline predictions (20/3-2025):

* Needs to be more advanced than most-frequent class (which is just O). Note that span-f1 is 0.0
* Viterbi is not a good choice, transition probabilities are uninformative
* A better idea might be LSTM or BERT, see assignment solutions

NER:

* Identifying class of a word (entity). Assigning that class
* Note that entities can be nested
* Note that labels may differ across datasets
* See 3 examples below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Barack | Obama | was | born | in | Hawaii |
| B-PER | I-PER | O | O | O | B-LOC |
|  |  |  |  |  |  |
| IT | University | of | Copenhagen |  |  |
| B-ORG | I-ORG | I-ORG | I-ORG |  |  |
| O | O | O | B-LOC |  |  |
|  |  |  |  |  |  |
| Barack | Obama | was | born | in | Hawaii |
| B-POL | I-POL | O | O | O | B-GEO |

Evaluation with span-F1:

* Precision and recall over spans instead of words
* Conlleval.pl is the most common implementation
* Micro-F1 considers instances instead of labels
* Also reports per class scores
* Rob also provides an implementation: span\_f1.py, known to give different results. Also returns:
  + Loose F1
  + Unlabelled F1
  + Can be used to analyse whether a model is bad at finding the exact boundaries or the labels.