

Project report (poster)



Start Assignment

- Due Sunday by 23:59
- Points 50
- Submitting a file upload
- File types pdf and zip
- Available 1 Feb at 0:00 - 13 Apr at 9:00

Goals:

The goal of the final assignment is for students to show that they can apply the practice and theory presented in the course to a real-world use case. This assignment makes up 40% of the final grade and it consists of a final report in the form of a poster (1 page, PDF).

Requirements:

- Test set(s) (you will receive test set(s) in week 6). Here they are: [sentiment-topic-test.tsv](https://canvas.vu.nl/courses/75225/files/7460507?wrap=1) (<https://canvas.vu.nl/courses/75225/files/7460507?wrap=1>) 
(https://canvas.vu.nl/courses/75225/files/7460507/download?download_frd=1) (for sentiment analysis and topic analysis evaluation) and [NER-test.tsv](https://canvas.vu.nl/courses/75225/files/7460509?wrap=1) (<https://canvas.vu.nl/courses/75225/files/7460509?wrap=1>) 
(https://canvas.vu.nl/courses/75225/files/7460509/download?download_frd=1) (for NERC evaluation).
- Practical NLP skills acquired through the lab sessions
- 3 NLP techniques should be applied: **NERC**, **sentiment analysis**, and **topic analysis**. Sentiment analysis and topic analysis should be done at the sentence level (see the test set provided).
 - Extract NEs and identify the topic and the sentiment of each sentence in the test set(s). For one of the techniques, select a range of **different systems (2 minimum)** and analyse the result of the different systems. Perform an error analysis to explain differences in performances that stand out, make suggestions how to improve the systems. If you obtain perfect results, you still have to analyse them (i.e., why, in your opinion, the results are perfect?).

Presenting the results in a clear way is important.

Description:

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As part of the requirements to pass this course you will be asked to do an analysis of a test set. During the lab sessions, you will familiarise yourself with the tools to use.

As part of the final assignment you are also to describe your analyses in a poster that further details:

- a description and motivation for your approach(es) (with links to the theory presented in the lectures and from relevant literature);
- description of the data used
- discussion and analysis of the obtained results;
- limitations of your approach and what could be done to improve it should you have more time;
- links to your source code / your experiments (zip file);
- a short paragraph stating how you divided the work in your group (who did what).

Your poster should be 1 page (pdf), including a short paragraph how you divided the work is compulsory. Without such a paragraph, the report is not graded!!!

Division of work:

We expect that all students contribute to: 1) the coding, 2) the result and error analysis and 3) poster preparation. The degree to which this is the case impacts your grade. We therefore expect you to specify for each student the contribution to each of these three aspects of the work.

student 1: 1) coding, 2) analysis, 3) poster preparation

student 2: 1) coding, 2) analysis, 3) poster preparation

student 3: 1) coding, 2) analysis, 3) poster preparation

student 4: 1) coding, 2) analysis, 3) poster preparation

Deliverables:

- Poster

This assignment makes up 40% of your final grade.

In short:

- you learn to use the tools at the lab sessions, working in a small group
- you hand in a poster on the basis of the work of your group.

Please hand in your final assignment as **a single PDF file**. If you want to share your code/demo, please add a link to your PDF file. Please check that you covered all items to be included in your poster as described in the assignment.

| Final project report | | | |
|--|----------------------|-------------------|------------------|
| Criteria | Ratings | | Pts |
| Data usage | 15 Pts Full marks | 0 Pts No marks | 15 pts |
| Methodology and use of NLP | 15 Pts Full marks | 0 Pts No marks | 15 pts |
| Analysis and discussion of the results | 15 Pts Full marks | 0 Pts No marks | 15 pts |
| Clarity and division of work | 5 Pts Full marks | 0 Pts No marks | 5 pts |
| | | | Total points: 50 |