



Review report of a final thesis

Reviewer: doc. RNDr. Ing. Marcel Jiřina, Ph.D.
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Thesis title: Detection of Websites with Extremist Content
Branch / specialization: Knowledge Engineering
Created on: 20 May 2022

Evaluation criteria

1. Fulfillment of the assignment

- ▶ [1] assignment fulfilled
- [2] assignment fulfilled with minor objections
- [3] assignment fulfilled with major objections
- [4] assignment not fulfilled

All the requirements of the assignment were fulfilled.

2. Main written part 95 /100 (A)

The work is well structured. The individual parts are logically connected to each other. All chapters are balanced in content. The thesis is written in good English. Linguistic and stylistic deficiencies are minimal.

3. Non-written part, attachments 85 /100 (B)

The assignment is well analyzed and a suitable and functional solution is proposed, which is then verified on data. The implementation is correctly executed, albeit minimalistically.

In Section 3.1 on page 11, the definitions of stemming and lemmatization are not correct. In Section 4.2, the identified rules are loosely described in the text, but since this is an important result of the work, I would have expected the rules to be more formalized, e.g. in the form of a structured list of rules.

4. Evaluation of results, publication outputs and awards 90 /100 (A)

The results of the work are very good. The success rate of the SVM classifier is over 99 percent and that of the knowledge-based system is 80 percent. Both the tools proved to be suitable and useful for solving the given task.

The overall evaluation

90 /100 (A)

The work is well built, the solution design is correct, the implementation is functional and the results well evaluated. My criticisms are more or less only of a formal nature.

Questions for the defense

I have no questions for the student, we clarified everything during the personal consultation.

Instructions

Fulfillment of the assignment

Assess whether the submitted FT defines the objectives sufficiently and in line with the assignment; whether the objectives are formulated correctly and fulfilled sufficiently. In the comment, specify the points of the assignment that have not been met, assess the severity, impact, and, if appropriate, also the cause of the deficiencies. If the assignment differs substantially from the standards for the FT or if the student has developed the FT beyond the assignment, describe the way it got reflected on the quality of the assignment's fulfilment and the way it affected your final evaluation.

Main written part

Evaluate whether the extent of the FT is adequate to its content and scope: are all the parts of the FT contentful and necessary? Next, consider whether the submitted FT is actually correct – are there factual errors or inaccuracies?

Evaluate the logical structure of the FT, the thematic flow between chapters and whether the text is comprehensible to the reader. Assess whether the formal notations in the FT are used correctly. Assess the typographic and language aspects of the FT, follow the Dean's Directive No. 52/2021, Art. 3.

Evaluate whether the relevant sources are properly used, quoted and cited. Verify that all quotes are properly distinguished from the results achieved in the FT, thus, that the citation ethics has not been violated and that the citations are complete and in accordance with citation practices and standards. Finally, evaluate whether the software and other copyrighted works have been used in accordance with their license terms.

Non-written part, attachments

Depending on the nature of the FT, comment on the non-written part of the thesis. For example: SW work – the overall quality of the program. Is the technology used (from the development to deployment) suitable and adequate? HW – functional sample. Evaluate the technology and tools used. Research and experimental work – repeatability of the experiment.

Evaluation of results, publication outputs and awards

Depending on the nature of the thesis, estimate whether the thesis results could be deployed in practice; alternatively, evaluate whether the results of the FT extend the already published/known results or whether they bring in completely new findings.

The overall evaluation

Summarize which of the aspects of the FT affected your grading process the most. The overall grade does not need to be an arithmetic mean (or other value) calculated from the evaluation in the previous criteria. Generally, a well-fulfilled assignment is assessed by grade A.