

Review report of a final thesis

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Thesis title: Recommendation system for Data Dictionary application.

Branch / specialization: Knowledge Engineering

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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

Thesis fully complete the assigned task.

2. Main written part

100_{/100} (A)

The work is well structured and readable. It contains a nice description of current recommendation methods.

3. Non-written part, attachments

100/100 (A)

The student uses the latest methods usually used in recommendation systems nowadays. I have no reservations in the case of code.

4. Evaluation of results, publication outputs and awards

70_{/100} (C)

Overall, the work results are weak and certainly not ready for publication. The student demonstrates several complex models that perform worse on offline data than a simple baseline that closely resembles the cache functionality. Further, the student does not solve the cold user problem where the cache is not yet created or is small, and the second baseline would have nothing to recommend. In this setup, using more complex CB and, eventually, CF methods would make more sense.

The overall evaluation

Overall, the work is interesting, and the student wrote it well. It contains all the essential information about the recommendation systems.

Unfortunately, the work results are weak, and the student did not solve the problem itself. He should think more about what he wants to do to make it work, mainly in practice. In my opinion, instead of saying that simple baseline beat complex models, the student should try to find the advantages of these models. For example, try to explore the cold user problem.

I rate the work C.

Questions for the defense

If you have done state-of-the-art research, what methods and principles are used in this area? And why have you failed to achieve them?

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.