



Supervisor's statement of a final thesis

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Student: Bc. Vendula Švastalová
Thesis title: Harnessing Spatial Context for Item Recommendation
Branch / specialization: Knowledge Engineering
Created on: 3 June 2024

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

The assignment was fully fulfilled.

2. Main written part 100/100 (A)

The student proposed a neural network-based general-purpose location encoder architecture that is adaptable to different tasks, such as recommending new restaurants in an area or suggesting a sport activity to a community. It's worth noting that the work is novel, the methodology is complex, and the application is not yet well explored. The written part follows a scientific structure with a comprehensive literature review and composed with decent English

3. Non-written part, attachments 98/100 (A)

The code is well implemented, easy to understand and well explained.

4. Evaluation of results, publication outputs and awards 98/100 (A)

The experimental results are very good, and the comparison with baselines is adequate. Although the interpretability aspect could benefit from improvement, I judge it to be sufficient.

5. Activity of the student

- ▶ [1] excellent activity

- [2] very good activity
- [3] average activity
- [4] weaker, but still sufficient activity
- [5] insufficient activity

Bc. Vendula Švastalová is an excellent student. She was very punctual in our meetings and always prepared for our consultations. We had several meetings, and in all of them, she was very attentive and provided results thereafter.

6. Self-reliance of the student

- ▶ [1] **excellent self-reliance**
- [2] very good self-reliance
- [3] average self-reliance
- [4] weaker, but still sufficient self-reliance
- [5] insufficient self-reliance

The student demonstrated excellent self-reliance. She was independent in her research and could identify problems and propose solutions independently.

The overall evaluation

98 /100 (A)

The thesis is of great quality. The student developed it with excellence, and I recommend its acceptance with a grade A.

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.

Activity of the student

From your experience with the course of the work on the thesis and its outcome, review the student's activity while working on the thesis, his/her punctuality when meeting the deadlines and whether he/she consulted you as he/she went along and also, whether he/she was well prepared for these consultations.

Self-reliance of the student

From your experience with the course of the work on the thesis and its outcome, assess the student's ability to develop independent creative work.

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.