Supervisor’s statement of a final thesis

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Thesis title: Data augmentation using deep generative models in medical imaging
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

All parts of the assignment are fulfilled.

2. Main written part 70 /100 (C)

Well-written form, the structure of the chapters makes sense, average work with literature, solid presentation of the experiments.

3. Non-written part, attachments 84 /100 (B)

The student published the code online, it is well-written, well-organised, documented, and the trained model is attached as well. A more accessible version of the whole end-to-end flow would be much clearer if presented in a notebook (or other interactive) form. If the code was written in a bit more generic way, it would be much easier to plug the experiments to other architectures and different datasets.

4. Evaluation of results, publication outputs and awards 75 /100 (C)

Experiments are interesting and one could build on top of them. But there is a lot more that could have been done in terms of evaluation metrics, comparisons with other (similar) projects, making the whole training "end-to-end", and writing all the code in more generic way.
5. Activity of the student

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

The student was active.

6. Self-reliance of the student

[1] excellent self-reliance
[2] very good self-reliance
▶ [3] average self-reliance

The student was very independent, but the communication and more iterations on experiments would lead to even better results or even better usability of the solution.

The overall evaluation 75 /100 (C)

According to all of the comments above, my final grade is C.
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 fulfillment 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. 26/2017, 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.