

## Jury Member Report – Doctor of Philosophy thesis.

**Name of Candidate:** Daryna Dementieva

**PhD Program:** Computational and Data Science and Engineering

**Title of Thesis:** Methods for fighting with harmful multilingual textual content

**Supervisor:** Assistant Professor Alexander Panchenko

**Name of the Reviewer:** Animesh Mukherjee

I confirm the absence of any conflict of interest  (Alternatively, Reviewer can formulate a possible conflict)	<b>Date: 16-09-2022</b>
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*The purpose of this report is to obtain an independent review from the members of PhD defense Jury before the thesis defense. The members of PhD defense Jury are asked to submit signed copy of the report at least 30 days prior the thesis defense. The Reviewers are asked to bring a copy of the completed report to the thesis defense and to discuss the contents of each report with each other before the thesis defense.*

*If the reviewers have any queries about the thesis which they wish to raise in advance, please contact the Chair of the Jury.*

### Reviewer's Report

Reviewers report should contain the following items:

- Brief evaluation of the thesis quality and overall structure of the dissertation.
- The relevance of the topic of dissertation work to its actual content
- The relevance of the methods used in the dissertation
- The scientific significance of the results obtained and their compliance with the international level and current state of the art
- The relevance of the obtained results to applications (if applicable)
- The quality of publications

The summary of issues to be addressed before/during the thesis defense

Overall, this is a very nice piece of work. I especially congratulate the author for taking up some of the challenging problems of modern times and my favourite is the detoxification data that was collected. I think this will have a long term impact on the community. I have a few minor queries below which may be addressed.

Section 5.8: I think it would be nice to add some error analysis to demonstrate why the multilingual text similarity does not work well.

Table 5.9 Caption: 0.95% confidence intervals or 95% confidence intervals?

How do you think your method based on cross-lingual relevance be extended to the social media domain? A discussion on this would be useful.

Rewrite:

“Warning: this part contains texts with rude, obscene texts only for examples illustration. We have no intense to offend the reader.”

As

“Warning: this part contains texts with rude, obscene texts only for example illustration. We have no intent to offend the reader.”

For the style transfer task, do you think the recent prompt engineering based approaches could be useful? A discussion on this would be useful.

#### **Provisional Recommendation**

✓ *I recommend that the candidate should defend the thesis by means of a formal thesis defense*

*I recommend that the candidate should defend the thesis by means of a formal thesis defense only after appropriate changes would be introduced in candidate’s thesis according to the recommendations of the present report*

*The thesis is not acceptable and I recommend that the candidate be exempt from the formal thesis defense*