

Review of Bachelor's Thesis

Student: Dobrovodský Patrik
Title: Named Entity Recognition Exploiting Sub Word Information (id 24847)
Reviewer: Egorova Ekaterina, Ing., DCGM FIT BUT

- 1. Assignment complexity** **considerably demanding assignment**
The task requires understanding advanced and SOTA ML techniques and approaches. The implementation makes use of ready libraries for training the networks, but the system setups are complex and require a lot of tuning.
- 2. Completeness of assignment requirements** **assignment fulfilled**
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- 3. Length of technical report** **in usual extent**
Covering all that is necessary, enough discussion of results and theoretical background too
- 4. Presentation level of technical report** **95 p. (A)**
Reads very logical in general, good references between chapters. I did not like the references to human brains in the beginning of every NN technique description, but it's my personal preference
- 5. Formal aspects of technical report** **85 p. (B)**
Some of the language use was informal, but these are minor issues not affecting the general readability. I felt like some math formulas description was lacking. Nice pictures are used for architectures descriptions.
- 6. Literature usage** **98 p. (A)**
Very extensive reference section and good presentation of approaches in the theoretical chapters. Relevant SOTA results from established publications are compared with. I had a minor issue with the way citations are presented but this is not affecting readability.
- 7. Implementation results** **95 p. (A)**
Implementation is well structured, with README covering requirements and dependencies. Uses well established libraries for effective computations.
- 8. Utilizability of results**
Applies known technique in a new way to solve a problematic aspect of the NER task; compares functionality of the approach to SOTA results on several languages and datasets and improves the output in most cases.
- 9. Questions for defence**
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- 10. Total assessment** **95 p. excellent (A)**
I liked the presentation of the results, and comparisons with other papers too. It's a big plus to be experimenting on several languages. There are several minor things to be improved about the document but the writing is in general quite clear and covers the work done very well.

In Brno 3 June 2022

Egorova Ekaterina, Ing.
reviewer