

**I. IDENTIFICATION DATA**

<b>Thesis title:</b>	<b>Algorithms for extraction of definitions in laws</b>
<b>Author's name:</b>	Bc. Jan Hošťálek
<b>Type of thesis :</b>	master
<b>Faculty/Institute:</b>	Faculty of Electrical Engineering (FEE)
<b>Department:</b>	Department of Computer Science
<b>Thesis reviewer:</b>	Ing. Petr Křemen, Ph.D.
<b>Reviewer's department:</b>	Department of Computer Science

**II. EVALUATION OF INDIVIDUAL CRITERIA**

<b>Assignment</b>	<b>challenging</b>
<i>How demanding was the assigned project?</i>	
The project aimed at semi-automated creation of ontologies from the source normative documents. Large part of the thesis explored a novel way of using large language models to support ontology curators during creating vocabulary and formalizing ontological relationships from Czech legal documents. The combination and orchestration of novel technologies and their usage for ontology creation from Czech texts makes it a challenging topic.	

<b>Fulfilment of assignment</b>	<b>fulfilled</b>
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
The work fully fulfilled the assignment. The designed algorithms and their orchestration proved relevant and also useful by potential users.	

<b>Activity and independence when creating final thesis</b>	<b>A - excellent.</b>
<i>Assess whether the student had a positive approach, whether the time limits were met, whether the conception was regularly consulted and whether the student was well prepared for the consultations. Assess the student's ability to work independently.</i>	
The collaboration with the student was excellent. He was proactive, always positive and able to defend proposals and ideas, as well as accept my feedback.	

<b>Technical level</b>	<b>A - excellent.</b>
<i>Is the thesis technically sound? How well did the student employ expertise in his/her field of study? Does the student explain clearly what he/she has done?</i>	
The technical quality of the thesis is excellent. The student proved himself to be able to formulate technically sound yet understandable flows. The technical level of the thesis text is adequate.	

<b>Formal level and language level, scope of thesis</b>	<b>A - excellent.</b>
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
The thesis is sufficiently extensive (64 pages), well readable, written in a very good English. The structure of the thesis is adequate. Yet, some parts of the text would benefit from a bit more time spent – e.g. in section 3 having depicted the overall flow of all the steps would help.	

<b>Selection of sources, citation correctness</b>	<b>A - excellent.</b>
<i>Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the</i>	

*student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?*

The thesis contains 41 citations, which are relevant, some of them being a bit underdefined (e.g. 16-18), but they provide enough information to locate and find the required source.

### **Additional commentary and evaluation (optional)**

*Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.*

The solution was tested with potential real users from the Prague Institute of Planning and Development (IPR Prague), who proved its usefulness for their current use-cases.

### **III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE**

*Summarize your opinion on the thesis and explain your final grading.*

The student is a skilled communicator equipped with deep technical skillset and the necessary scientific curiosity to be successful in his engineering career. His work proved to be interesting also for potential users. The collaboration was a real pleasure for me.

The grade that I award for the thesis is A - excellent.

Date: **8.6.2024**

Signature: