



FACULTY
OF MATHEMATICS
AND PHYSICS
Charles University

Report on part of state final examination Defence of master's thesis

Academic year: 2023/2024

Student's name and surname: Goutham Venkatesh Karunakaran
Student's ID: 87147071

Type of the study programme: Master's (post-Bachelor)
Study programme: Computer Science - Language Technologies and Computational Linguistics

Study ID: 707910

Title of the thesis: Automatic Relation Extraction from Clinical Documents: A Study of Fine-Tuned Transformer Models and LLMs
Thesis department: Institute of Formal and Applied Linguistics (207. • 32-UFAL)

Language of the thesis: English
Language of defence: English
Advisor: doc. RNDr. Pavel Pecina, Ph.D.
Reviewer(s): RNDr. Jiří Hana, Ph.D.
Date of defence: 10.09.2024 **Venue of defence:** Praha
Attempt: 1. resitting

Course of the examination: The student introduced his thesis on extraction entities and their relations from clinical reports. He presented available data, the methodology used, and gained results. The supervisor summarized his review. He informed the committee that most of the comments raised in the previous student's defense attempt were addressed and that he significantly improved the thesis (more detailed analysis; hyperparameter tuning); he stressed that all the thesis goals were achieved. On the other hand, some weak points remained (missing comparison with existing results, missing confidence estimation). The opponent's review was on the same line; he pointed out that the code is generally well organized and well written but nearly without comments. In his responses to the raised comments, the student compared with available models for Italian, Spanish, and Basque. The committee assessed the thesis in a closed session.

Result of defence:	very good (2)	
Chair of the board:	Lopatková Markéta, doc. RNDr., Ph.D.
Committee members:	Hana Jiří, RNDr., Ph.D.
	Holub Martin, RNDr., Ph.D.
	Pecina Pavel, doc. RNDr., Ph.D.