SUPERVISOR'S OPINION OF
FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Construction and analysis of the graph of social network professional communities**
Author's name:	**Adel Shavalieva**
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computer Science
Thesis supervisor:	Karel Frajták
Supervisor's department:	Department of Computer Science

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment   **challenging**
Evaluation of thesis difficulty of assignment.

Social network analysis is challenging, student proved to have knowledge of working with large datasets, data analysis and also programming skills.

Satisfaction of assignment   **fulfilled**
Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.

Student has fulfilled the assignment.

Technical level   **A - excellent.**
Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

From the technical perspective the thesis is of a high quality. The initial chapter of the aspects and challenges of the social network analysis is well written and introduces the reader into the problem. The proposed weighted model is clearly and well defined and its usage was demonstrated later in the thesis with result supporting the author's hypothesis.

Formal and language level, scope of thesis   **B - very good.**
Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

Thesis is well organized and formatted (I would personally choose TeX as a tool for writing a scientific document). Even though the author is not a native speaker the language is easy to read and understandable. Personally, I think the thesis is quite short for a master thesis.

Selection of sources, citation correctness   **C - good.**
Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.

The bibliography section contains just few citations and some of them are of a recent date, in this field I would expect much recent research to be cited.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation.

Questions
1. Just by looking at your codebase I found out you are using Postgres as a data storage, for a solution like this I would choose a graph database like Neo4J that is much more suitable to store social network data and also supports graph related algorithms out of the box. Have you considered graph database at some point of your research and discarded the idea for some reason? If so, please explain why.

I evaluate handed thesis with classification grade **A - excellent.**

Date: **19.6.2019**   Signature: