

## I. IDENTIFICATION DATA

<b>Thesis name:</b>	<b>Comparison of anomaly detection techniques</b>
<b>Author's name:</b>	<b>Lev Kolomazov</b>
<b>Type of thesis :</b>	bachelor
<b>Faculty/Institute:</b>	Faculty of Electrical Engineering (FEE)
<b>Department:</b>	Department of Computers
<b>Thesis supervisor:</b>	Ing. Dmytro Shykmanter
<b>Supervisor's department:</b>	Blindspot solutions (ext)

## II. EVALUATION OF INDIVIDUAL CRITERIA

<b>Assignment</b>	<b>ordinarily challenging</b>
<i>Evaluation of thesis difficulty of assignment.</i>	
Despite the fact that technically assignment is ordinarily challenging, from the practical point of view student has chosen very relevant research question. Given the fact that labeled data does not always exist, how well one can do with unsupervised methods is undoubtedly valid practical issue and reasonably challenging to find a good answer.	

<b>Satisfaction of assignment</b>	<b>fulfilled</b>
<i>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.</i>	
Student has fulfilled the assignment and delivered thorough conclusion.	

<b>Activity and independence when creating final thesis</b>	<b>A - excellent.</b>
<i>Assess that student had positive approach, time limits were met, conception was regularly consulted and was well prepared for consultations. Assess student's ability to work independently.</i>	
Student has chosen the topic with limited prior knowledge and practice, therefore it was very demanding for independent and additional self-study in field of machine learning. Hence student has demonstrated ability and ambitions to cope with new task, identify and work through necessary materials.	

<b>Technical level</b>	<b>C - good.</b>
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
Technical level is corresponding to student work and level of experience.	

<b>Formal and language level, scope of thesis</b>	<b>C - good.</b>
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
Both formal level and language could be better. For example, KNN abbreviation is used inconsistently ("KNN", "knn"), terminology is sometimes also inconsistent throughout the text. As far as language level is concerned, some paragraphs are written in rather informal style, particularly student uses contractions that should be present in formal text.	

<b>Selection of sources, citation correctness</b>	<b>A - excellent.</b>
<i>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.</i>	
Student has selected and studied broad range of sources, both technical and non-technical. Thanks to this student has combined business task with technical solutions.	

<b>Additional commentary and evaluation</b>
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*Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.*

Please insert your commentary (voluntary evaluation).

### III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

*Summarize thesis aspects that swayed your final evaluation.*

Despite some formal shortcomings, justified by lack of professional experience, I strongly appreciate that student is able to identify relevant and meaningful research question, learn independently and demonstrate creativity and ability to find a good answer.

I evaluate handed thesis with classification grade **B - very good**.

Date: **2.6.2019**

Signature: