

I. IDENTIFICATION DATA

Thesis title:	Machine learning operations framework for predictions in sports
Author's name:	Oganesian Tigran
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Computer Science
Thesis reviewer:	Ing. Karel Frajták, PhD.
Reviewer's department:	Software Testing Intelligent Lab

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	extraordinarily challenging
Assignment is extraordinarily challenging, it has many parts – getting familiar with MLOps, programming the solution, and running series of experiments on a computer cluster. The author's work resulted in a new improved framework adding the optimization evaluation capability.	
Fulfilment of assignment	fulfilled with major objections
The primary goals have been achieved. The evaluation part is not clearly explained – if the author is discussing various optimization approaches, how are the results compared/evaluated? How many experiments were performed since the task was to “perform wide range of experiments”? The attached archive with MLOps pipeline files contains impressive amount of code, author included a project structure in Appendix A. However, it is not clear if those files are part of the original framework or those are the new files created by the author.	
Methodology	correct
The approach is correct.	
Technical level	A - excellent.
The student employed expertise in his field of study. In the text it is clearly explained what was done.	
Formal and language level, scope of thesis	B - very good.
The thesis is sufficiently extensive for this type of work. The text is clear and understandable, though proofread would be worth of it. The English is satisfactory for a non-native speaker.	
Selection of sources, citation correctness	A - excellent.
Selection of sources is adequate. Citations meet the standards.	
Additional commentary and evaluation (optional)	
On p. 39 the author writes “Upon analyzing the results, it becomes evident that the larger training window had a significantly positive effect on the outcome of the bets” while the bankroll graph in Fig. 24 clearly shows a decline. The configurations files are supposed to be JSON files, but the examples, like Fig. 4.1, are not valid JSON files – what format is used? Chapter 5 introduces new name for the improved framework, the name is quite long and when mentioned later in the text, it throws reader off rail.	

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

The thesis presents the work student has done in the challenging area improving an already existing framework and adding the stability of MLOps to improve the execution of the experiments and further evaluation. Though the practical contribution is substantial, I have some objections which the student can address to improve the grade at the presentation.

The grade that I award for the thesis is **B - very good**.

Date: **15.6.2023**

Signature: