Brno University of Technology
Faculty of Information Technology

Review of Bachelor's Thesis

Student: Němcová Silvie
Title: Neural Network Training Progress Visualization (id 23446)
Reviewer: Baskar Murali K., DCGM FIT BUT

1. Assignment complexity — **average assignment**

2. Completeness of assignment requirements — **assignment fulfilled**
The thesis describes all aspects of the problem with strong motivation. The motivation is backed by proper set of experimental study.

3. Length of technical report — **in usual extent**

4. Presentation level of technical report — **90 p. (A)**
The presentation is well organized and the flow of the idea is clear

5. Formal aspects of technical report — **90 p. (A)**
The thesis has very minor grammar and spelling errors

6. Literature usage — **90 p. (A)**
The references are adequate and all works are cited at necessary places.

7. Implementation results — **95 p. (A)**
The implementation is kept open-source and easily replicable and executable.

8. Utilizability of results
The results are highly beneficial for the community as it describes a new way of visualizing model performance using quadratic approach

9. Questions for defence
1) Limitations of the quadratic path approach
2) Why Lagrange's interpolation polynomial is used over other quadratic interpolation techniques ?
3) How this method can be extended ?

10. Total assessment — **95 p. excellent (A)**
The method proposes an alternative way of visualizing model performance using quadratic interpolation approach. This method addresses the shortcomings of the existing linear path technique and substantiate it with extensive experiments and analysis

In Brno 25 May 2021

Baskar Murali K.
reviewer