## **Product Vision**

## Neronet

Toolbox for managing the training neural networks

CSE-C2610 Software Project Aalto University

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**Product Vision** 

Neronet

Wh

What

or whom





Neronet

Why

What

For whom

Currently available state-of-the-art tools and systems for computational research could be improved.



Researchers are slowed down by lack of good easy tools for practical everyday difficulties like

managing a queue and history of different experiments



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- monitoring and controlling progress of ongoing experiments



Why - business view

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- getting information about the computing environment
- monitoring and controlling progress of ongoing experiments
- analysing and comparing the results of experiment variations



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This leads to ineffective use of man and machine hours.

Aalto University School of Science and Technology The product's goal is to enable easy

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- configurable notifications on experiment state and progress
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- 5. configurable notifications on experiment state and progress
- 6. configurable criteria for experiment autotermination
- 7. logging of experiment history
- 8. preferences configuration



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Potential extra goals:

- 1. visualisation and analysis of experiment data
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Nonfunctional requirements:

- 1. low computational and memory overhead
- 2. good usability
- 3. easily maintainable and extensible
- 4. open source



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- Deep learning researchers
- Machine learning researchers
- Computational physics researchers
- Computational bioscience researchers
- Data science practitioners
- Enthusiasts & hobbyists

