

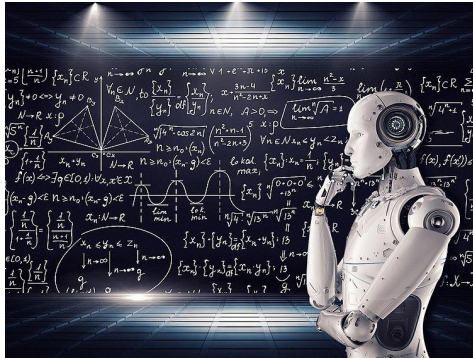


Hyperparameter Selection

Deep Learning Pre-Work

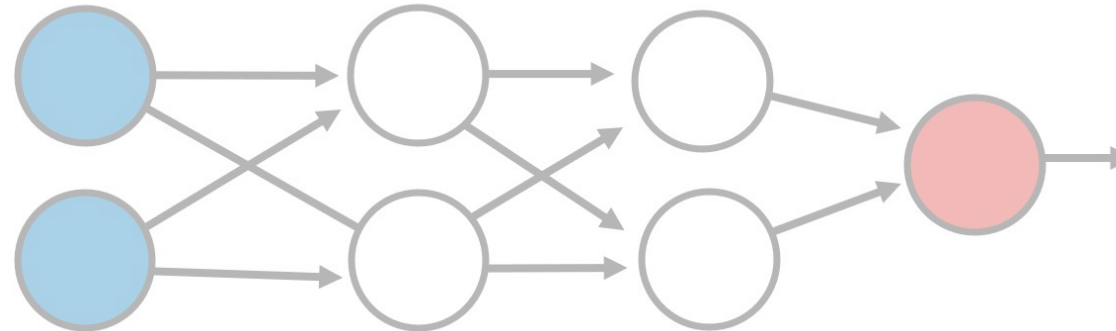
Deep Learning Hyperparameters

Machine Learning



Source: Wikimedia Commons

Hyperparameter Selection



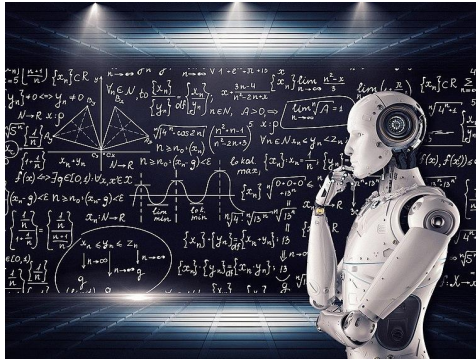
Source: Wikimedia Commons

This file is meant for personal use by muratgguzel77@yahoo.com only.

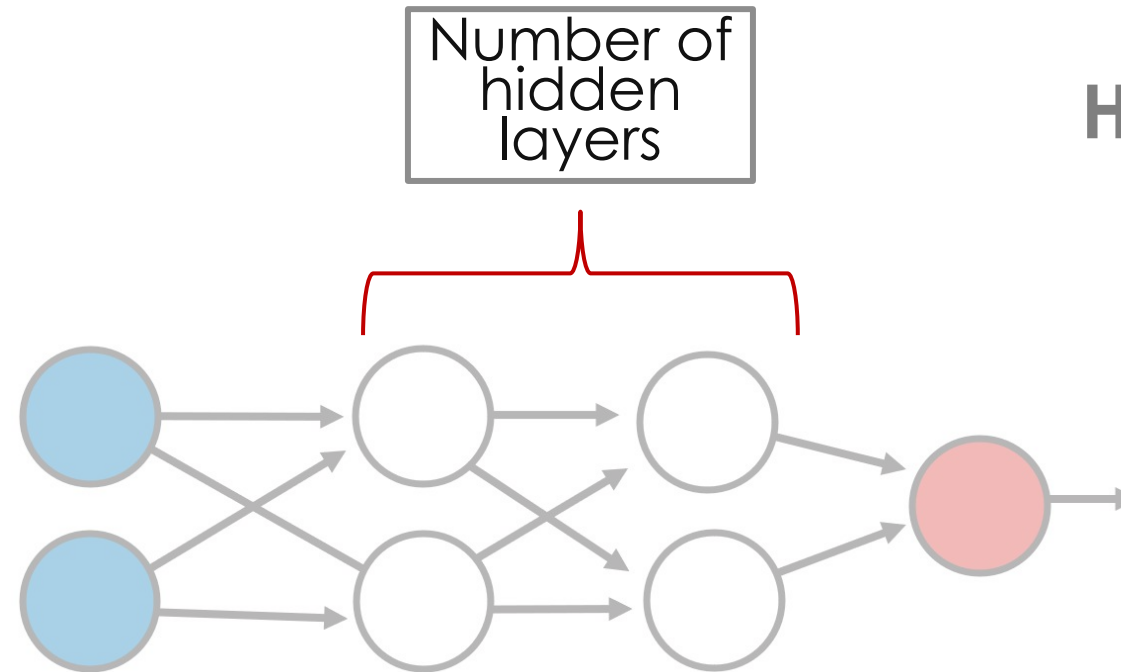
Sharing or publishing the contents in part or full is liable for legal action.

Deep Learning Hyperparameters

Machine Learning



Source: Wikimedia Commons



Hyperparameter Selection



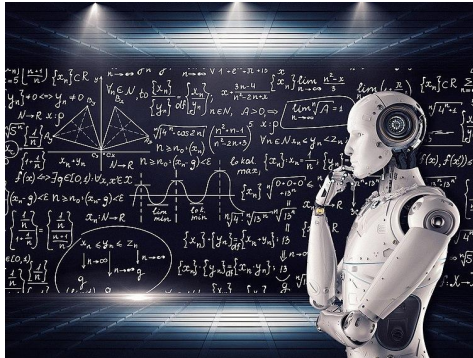
Source: Wikimedia Commons

This file is meant for personal use by muratgguzel77@yahoo.com only.

Sharing or publishing the contents in part or full is liable for legal action.

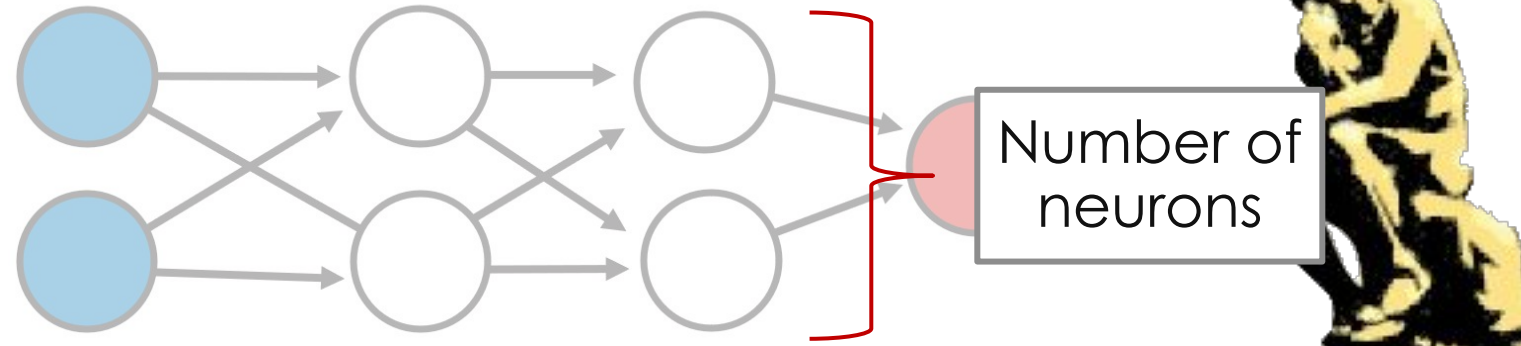
Deep Learning Hyperparameters

Machine Learning



Source: Wikimedia Commons

Hyperparameter Selection



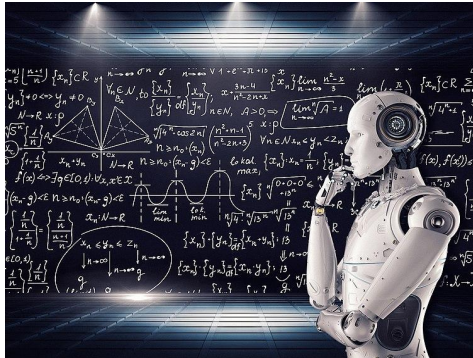
Source: Wikimedia Commons

This file is meant for personal use by muratgguzel77@yahoo.com only.

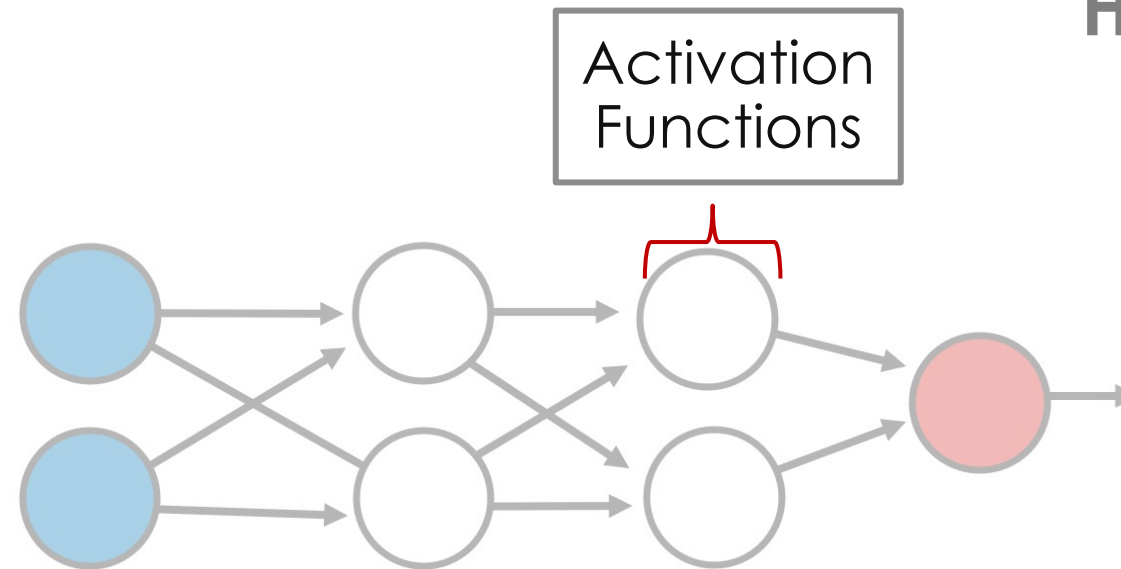
Sharing or publishing the contents in part or full is liable for legal action.

Deep Learning Hyperparameters

Machine Learning



Source: Wikimedia Commons



Hyperparameter Selection



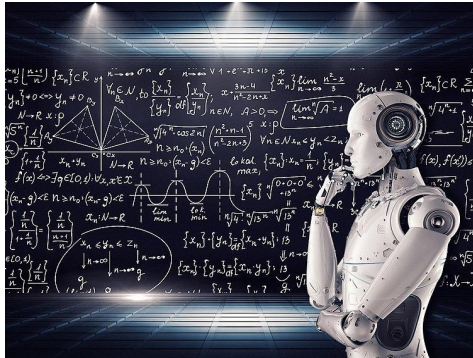
Source: Wikimedia Commons

This file is meant for personal use by muratgguzel77@yahoo.com only.

Sharing or publishing the contents in part or full is liable for legal action.

Deep Learning Hyperparameters

Machine Learning



Source: Wikimedia Commons

- Epochs
- Batch size
- Learning rate
- Optimizers

Hyperparameter Selection



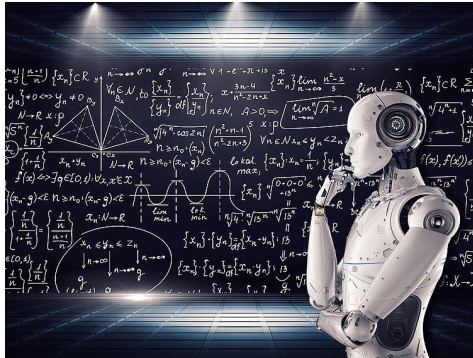
Source: Wikimedia Commons

This file is meant for personal use by muratgguzel77@yahoo.com only.

Sharing or publishing the contents in part or full is liable for legal action.

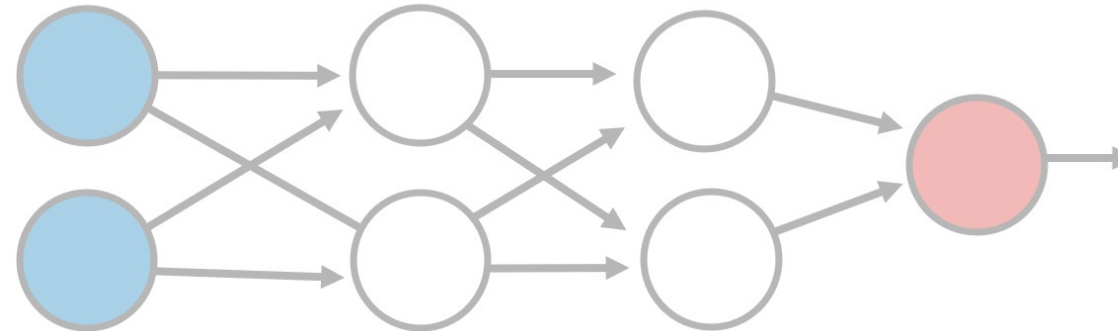
Deep Learning Hyperparameters

Machine Learning



Source: Wikimedia Commons

- Dropout rate
- Regularization
- Normalization Technique
- ...and more



Hyperparameter Selection



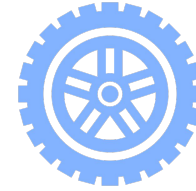
Source: Wikimedia Commons

This file is meant for personal use by muratgguzel77@yahoo.com only.

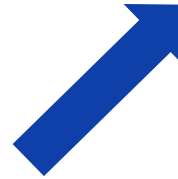
Sharing or publishing the contents in part or full is liable for legal action.

Tips and Strategies

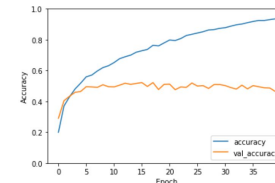
1) Don't reinvent the wheel



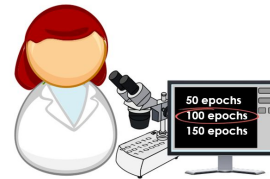
2) Start small and iterate



3) Look at loss plots



4) Tune hyperparameters



5) Don't worry about perfection



This file is meant for personal use by muratgguzel77@yahoo.com only.

Sharing or publishing the contents in part or full is liable for legal action.

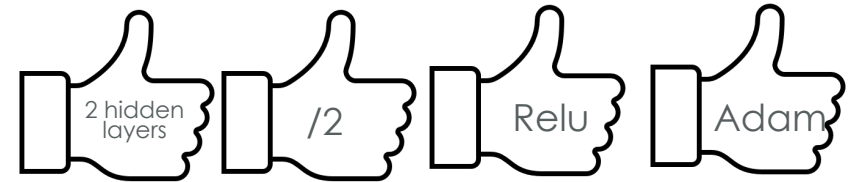
1. Don't reinvent the wheel



Previous projects



Rules of thumb



Google

Q deep learning predicting _____ X

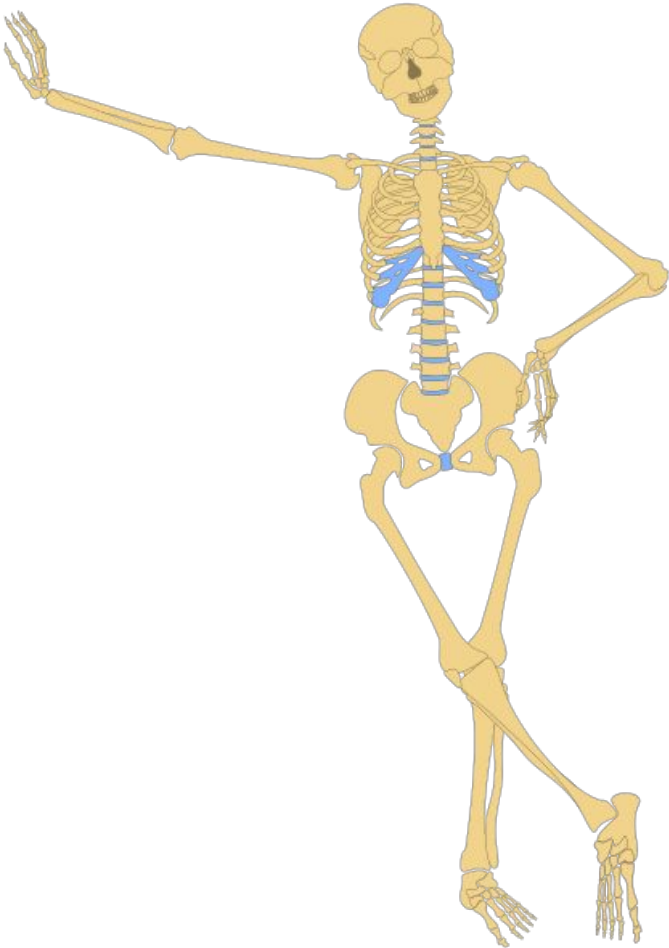
Google Search

This file is meant for personal use by muratgguzel77@yahoo.com only.

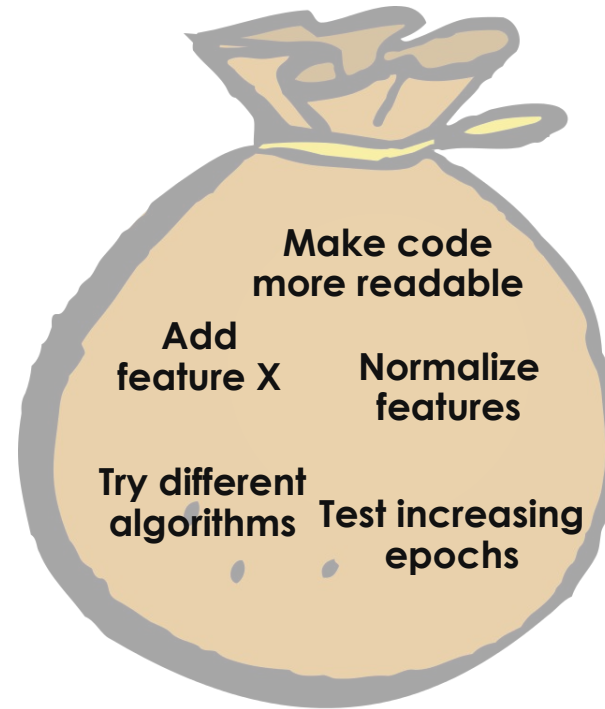
Sharing or publishing the contents in part or full is liable for legal action.

2. Start small and iterate

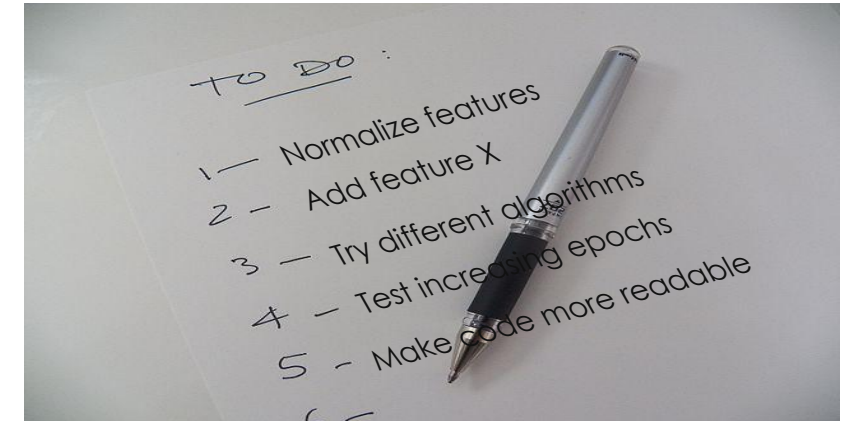
1. Build the skeleton



2. Collect ideas for enhancing



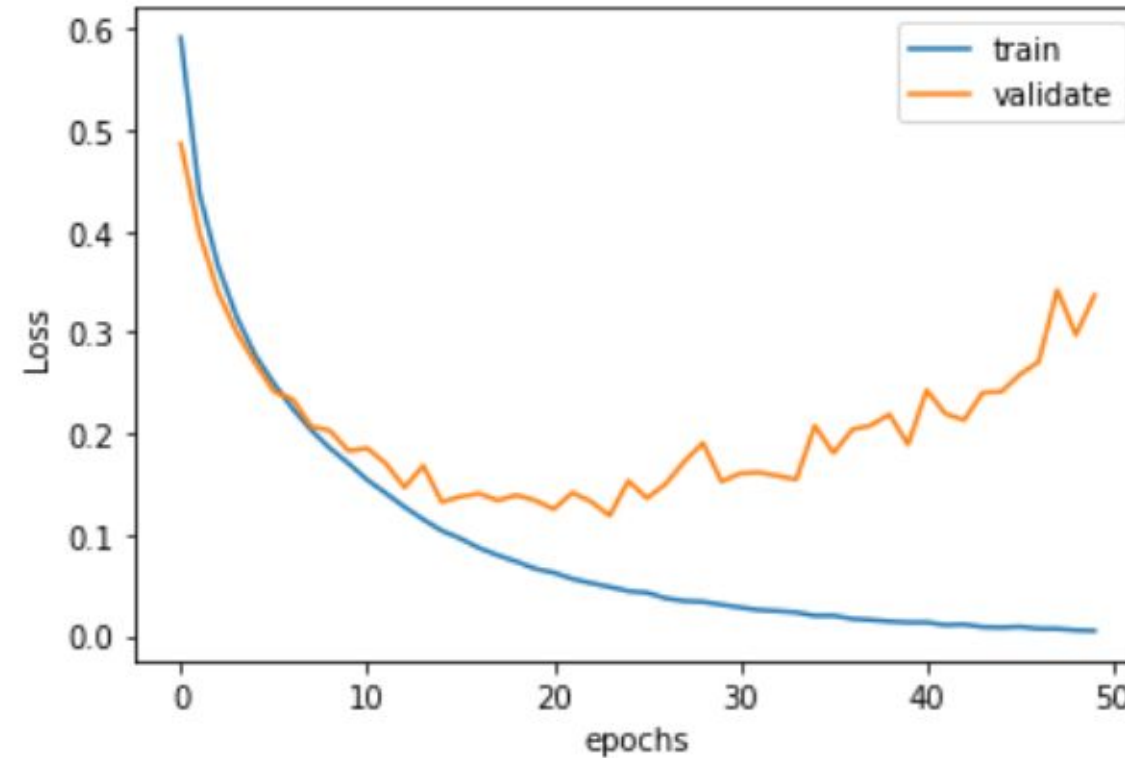
3. Implement one at a time until the deadline



This file is meant for personal use by muratgguzel77@yahoo.com only.

Sharing or publishing the contents in part or full is liable for legal action.

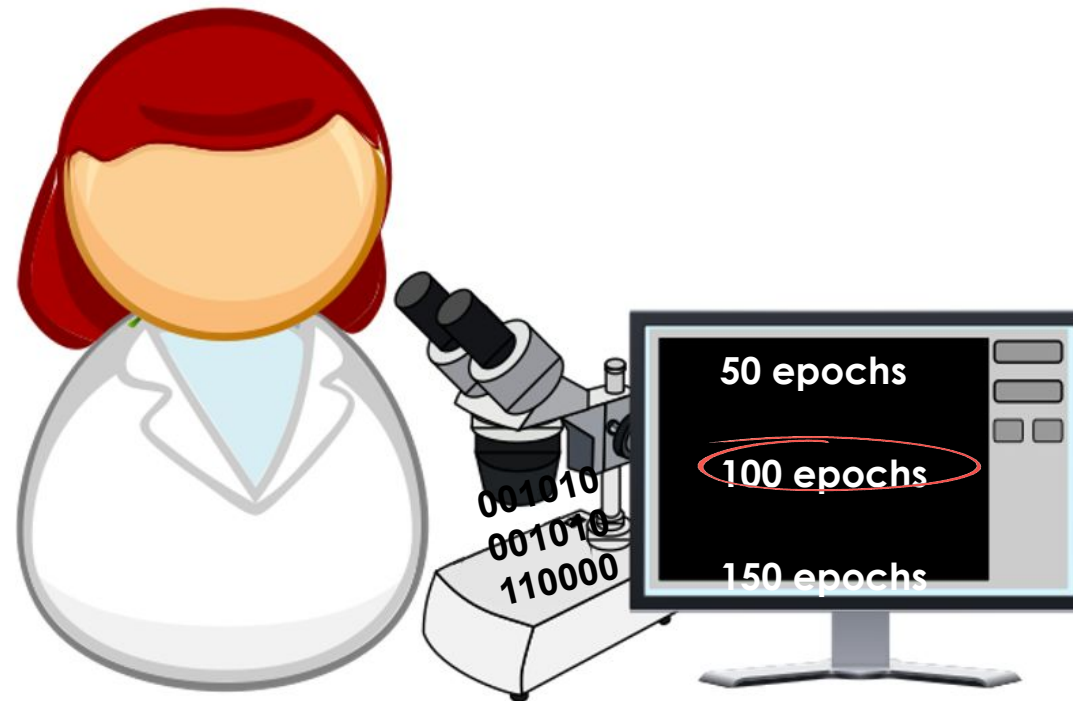
3. Look at loss plots



This file is meant for personal use by muratgguzel77@yahoo.com only.

Sharing or publishing the contents in part or full is liable for legal action.

4. Tune hyperparameters



This file is meant for personal use by muratgguzel77@yahoo.com only.

Sharing or publishing the contents in part or full is liable for legal action.

5. Don't worry about perfection



This file is meant for personal use by muratgguzel77@yahoo.com only.

Sharing or publishing the contents in part or full is liable for legal action.