Hyperparameter Selection

Deep Learning Pre-Work

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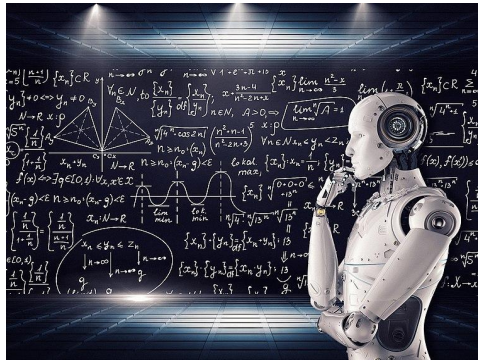
Deep Learning Hyperparameters

Machine Learning



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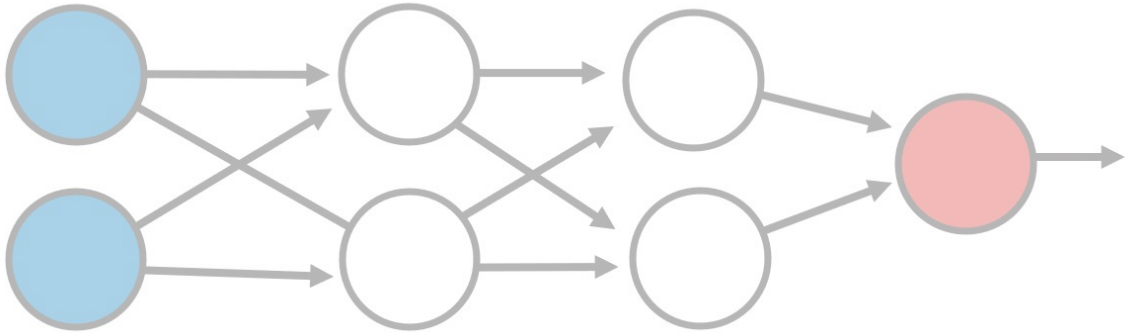

Hyperparameter Selection

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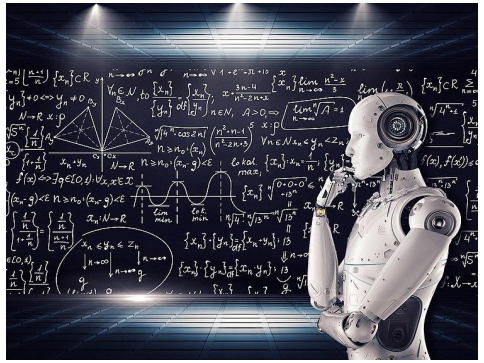
Deep Learning Hyperparameters

Machine Learning



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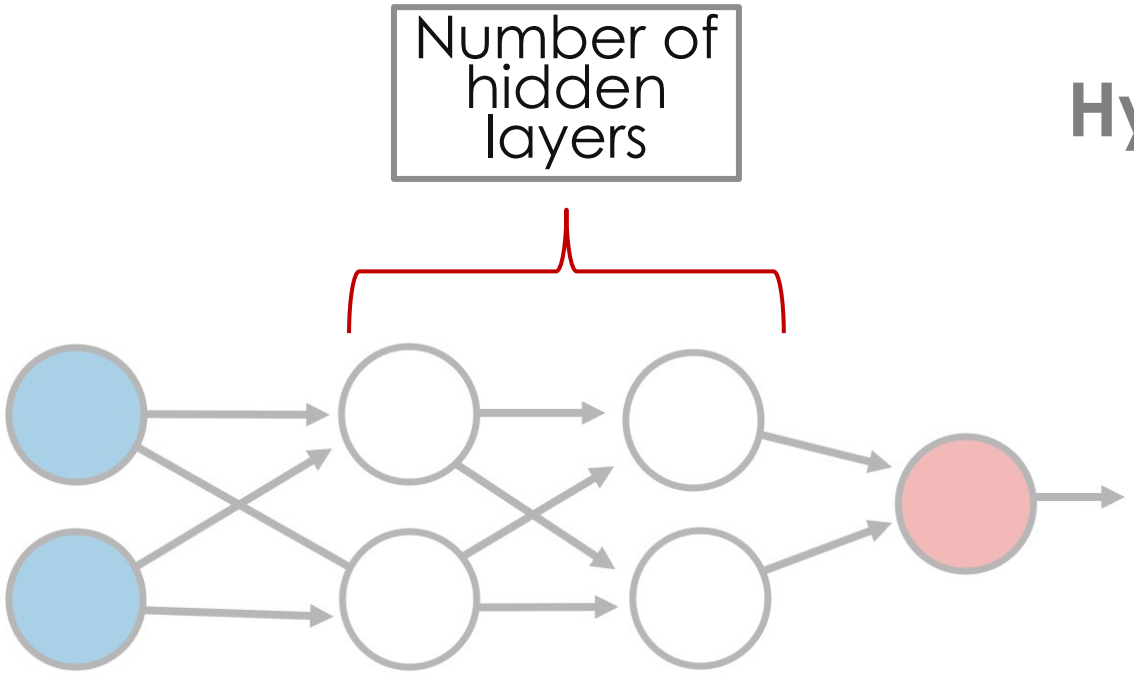

Hyperparameter Selection

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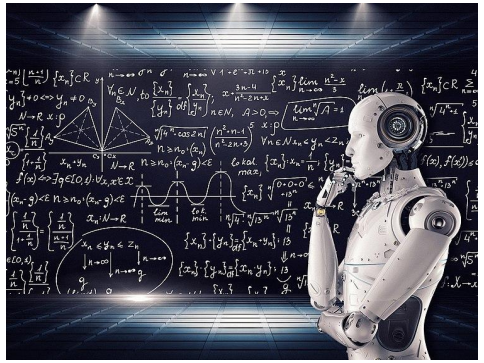
Deep Learning Hyperparameters

Machine Learning



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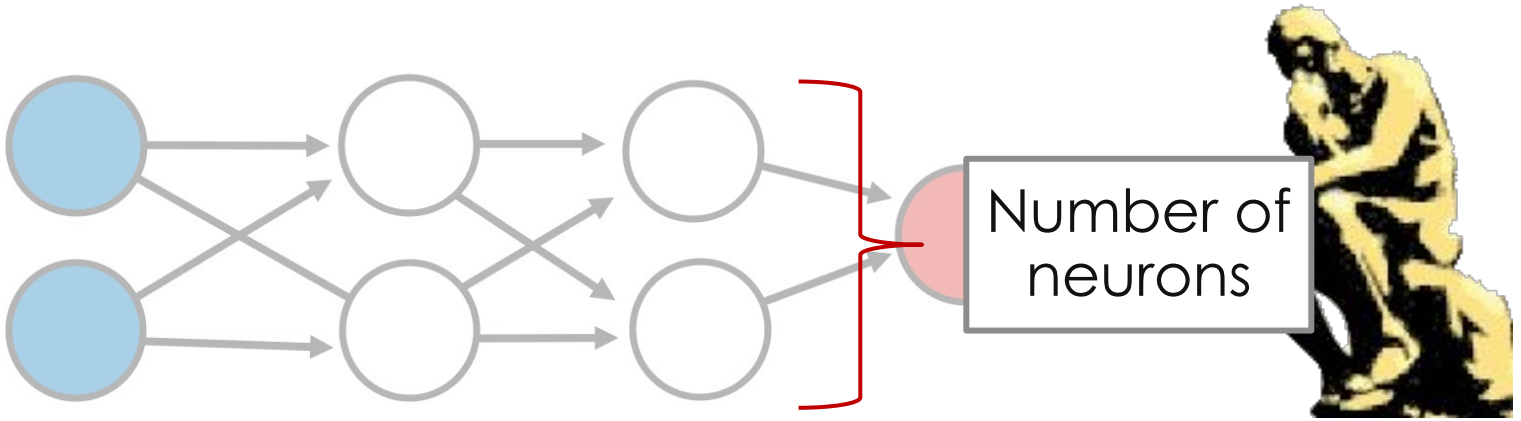
Hyperparameter Selection



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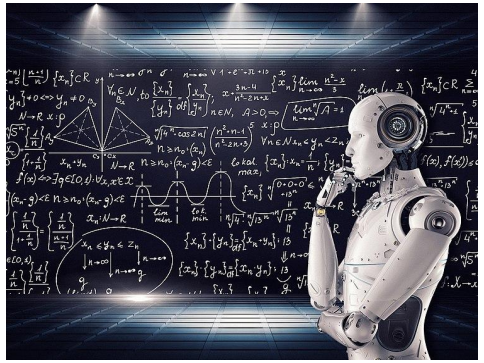
Deep Learning Hyperparameters

Machine Learning



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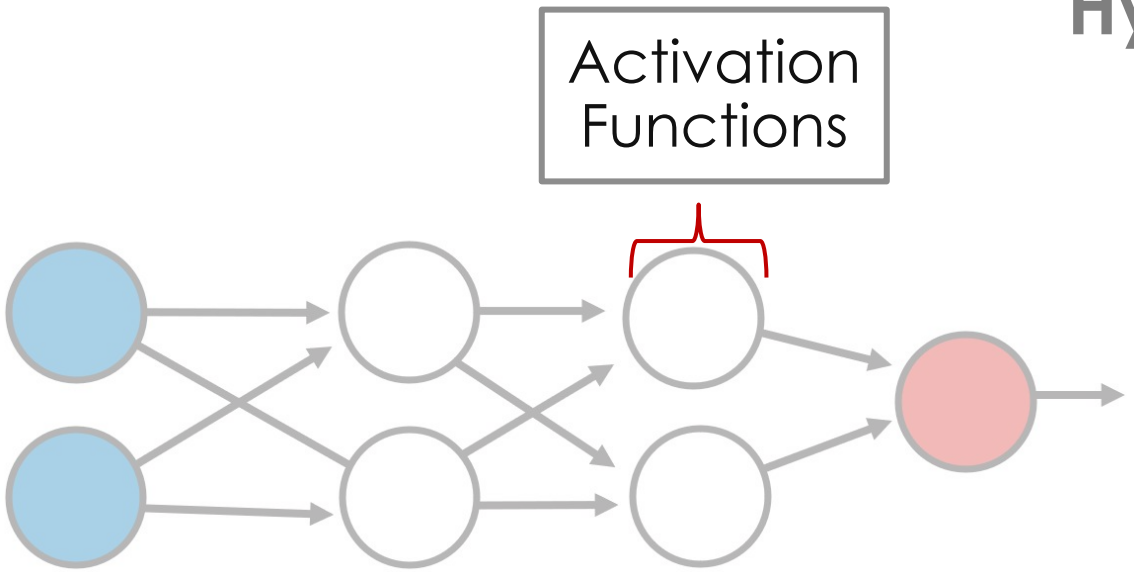

Hyperparameter Selection

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Deep Learning Hyperparameters

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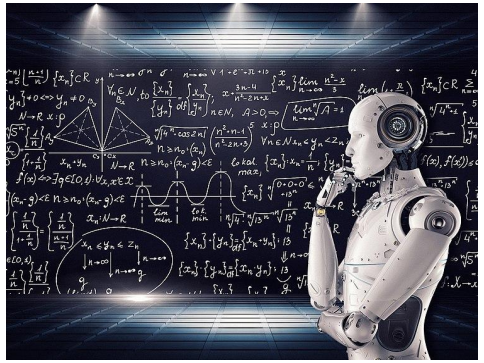

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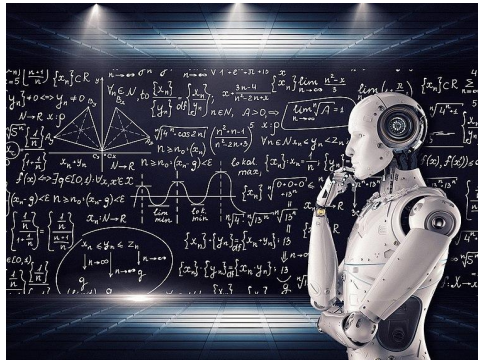
Deep Learning Hyperparameters

Machine Learning



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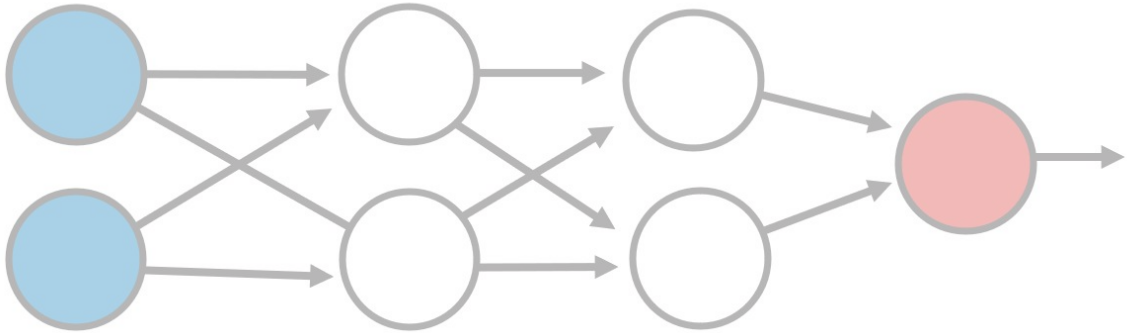
- Dropout rate
- Regularization
- Normalization Technique
- …and more



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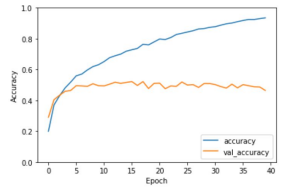
Tips and Strategies

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

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1. Don’t reinvent the wheel

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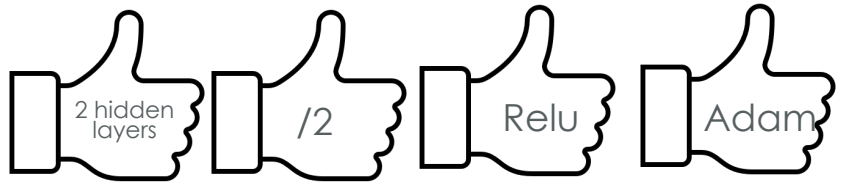
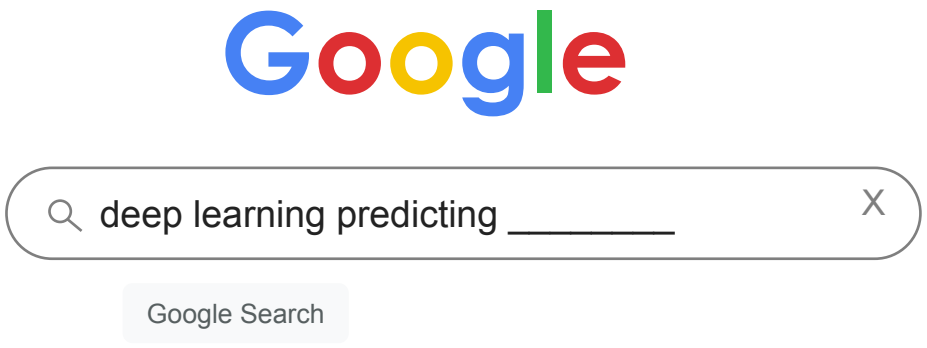
POWER AHEAD

Previous projects

Rules of thumb





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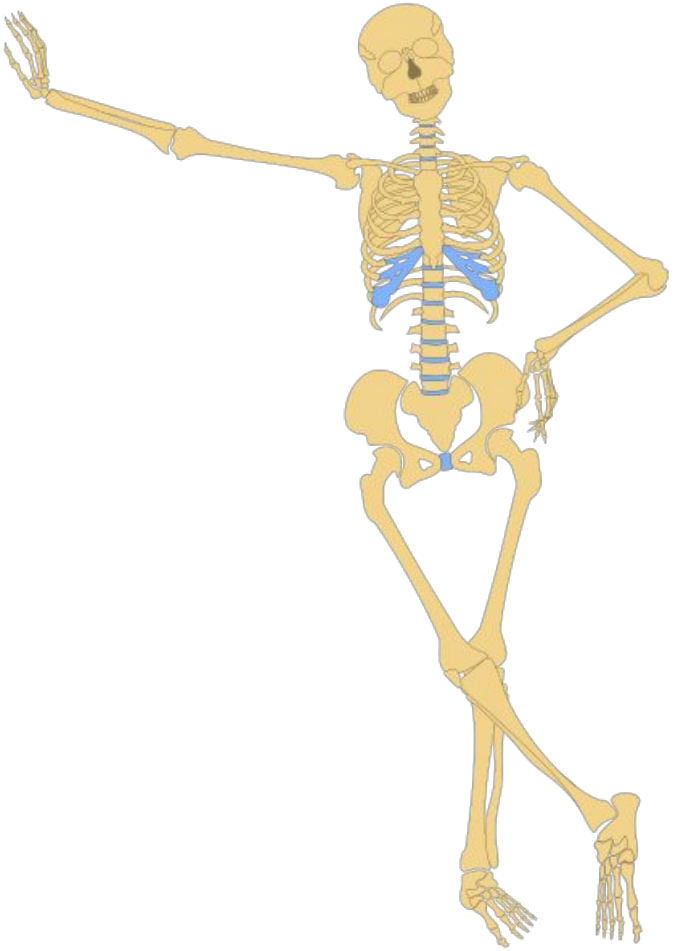
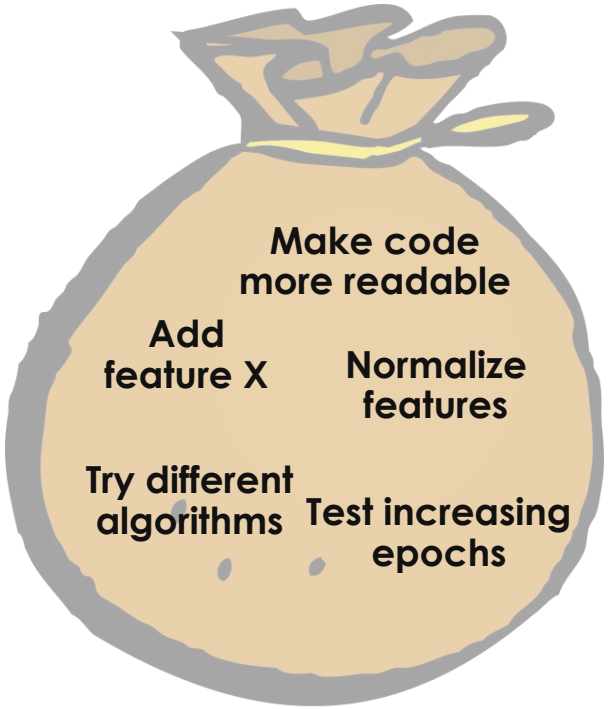
2. Start small and iterate

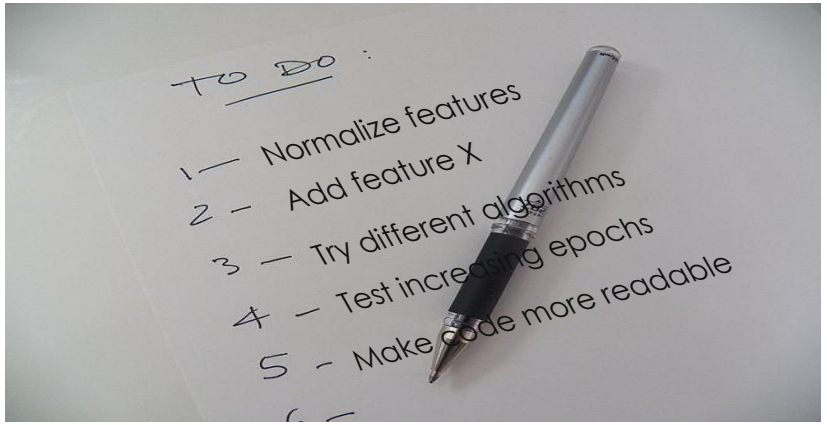
1. Build the skeleton



2. Collect ideas for enhancing



3. Implement one at a time until the deadline



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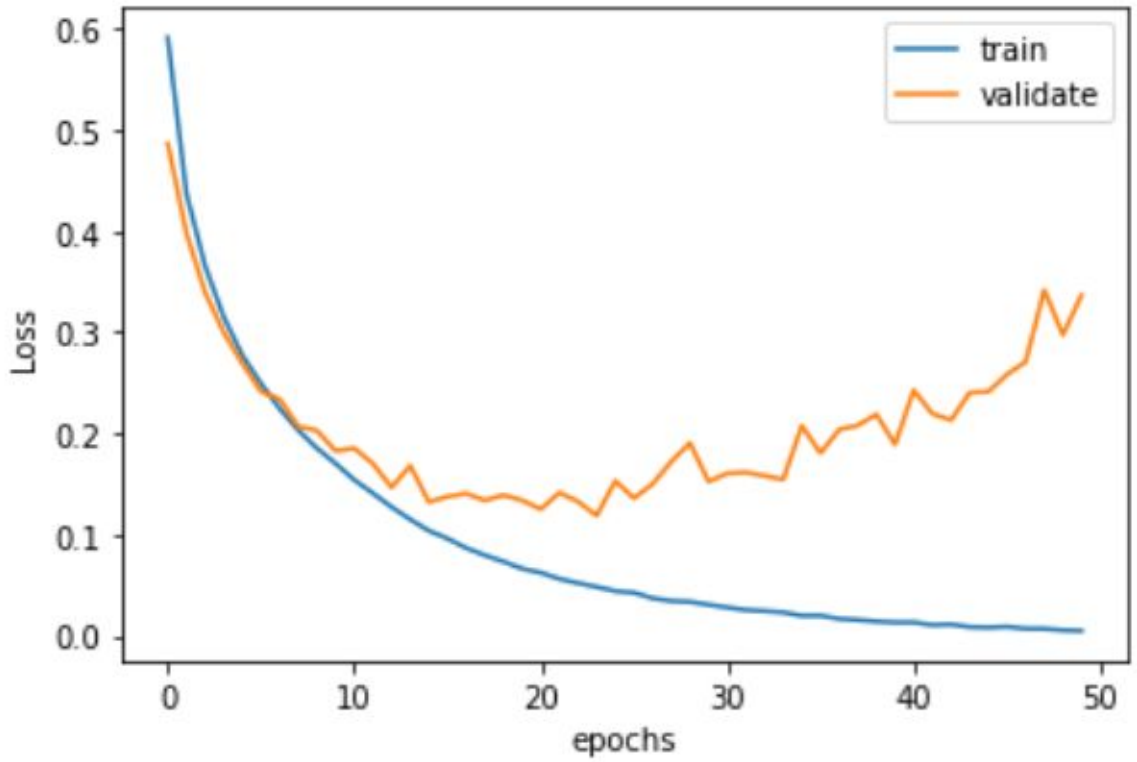
3. Look at loss plots



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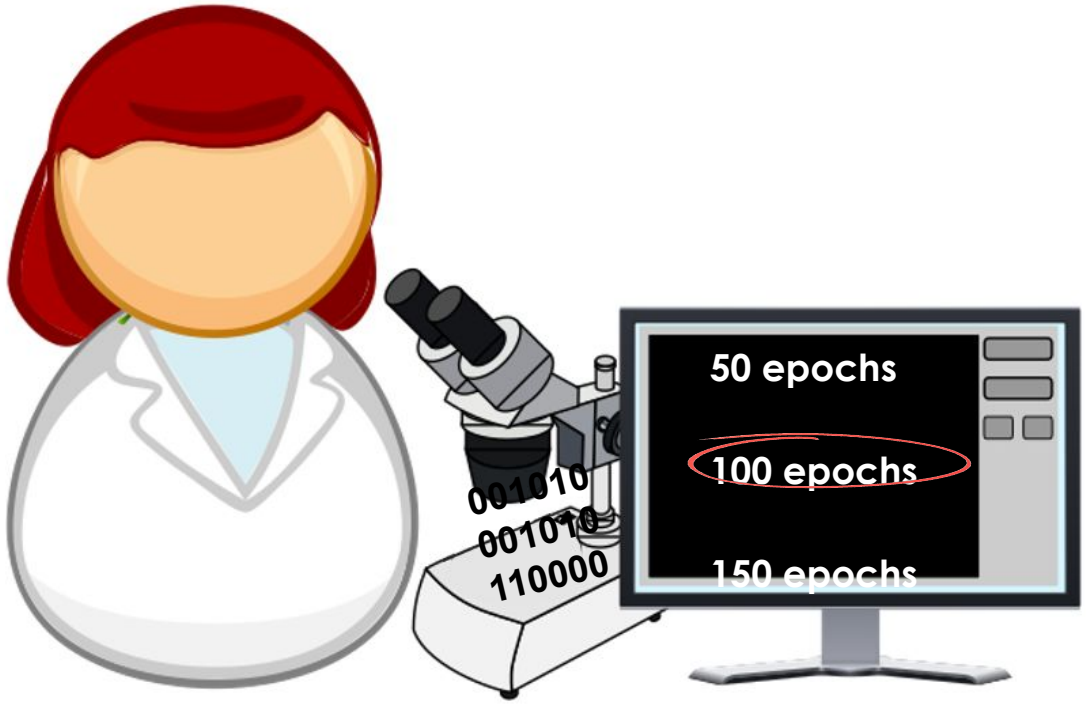
4. Tune hyperparameters



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5. Don’t worry about perfection

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