CAIAC

Spring 2025

[WEEK 0]

Introduction to machine learning

READINGS

Neural Networks
(3Blue1Brown, 2024)

Neural Networks

3Blue1Brown (2024)

`youtube.com/playlist?list=PLZHQObOWTQDNU6R1_67000Dx_ZCJB-3pi&feature=shared`

Notes:

Further Reading

A short introduction to machine learning
Ngo (2021)

`www.alignmentforum.org/posts/qE73pqxAZmeACsAdF/a-short-introduction-to-machine-learning`

Machine Learning for Humans, Part 2.1: Supervised Learning
Maini and Sabri (2017)

`medium.com/@v_maini/supervised-learning-740383a2feab`

What is self-supervised learning?
CodeBasics (2021)

`youtu.be/sJzuNAisXHA`

Introduction to reinforcement learning
von Hasselt (2021)

`www.youtube.com/watch?v=TCCjZe0y4Qc&t=2m0s`

The spelled-out intro to neural networks and backpropagation: building micrograd
Karpathy (2022)

`youtu.be/VMj-3S1tku0`

Transformers from scratch
Rohrer (2021)

`e2eml.school/transformers.html`

Machine learning for humans
Maini and Sabri (2017)

`medium.com/machine-learning-for-humans/why-machine-learning-matters-6164faf1df12`

Machine learning glossary
Google (2017)

`developers.google.com/machine-learning/glossary`

Spinning up deep RL: part 1 and part 2
OpenAI (2018)

`spinningup.openai.com/en/latest/spinningup/rl_intro.html`

A (long) peek into reinforcement learning
Weng (2018)

`lilianweng.github.io/posts/2018-02-19-rl-overview/`