



Spring 2025

[WEEK 0]

Introduction to machine learning

READINGS

Neural Networks
(3Blue1Brown, 2024)



Intro Fellowship Spring 2025

Neural Networks

3Blue1Brown (2024)

youtube.com/playlist?list=PLZHQObOWTQDNU6R1_6700Dx_ZCJB-3pi&feature=shared

Notes:



Intro Fellowship Spring 2025

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/