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Machine Learning with Python-From Linear Models to Deep Learning

[Course](#)[Progress](#)[Dates](#)[Discussion](#)[Resources](#)[Course](#) / [Unit 3. Neural net...](#) / [Lecture 9. Feedforward Neural Networks, Back](#)[< Previous](#)

1. Objectives

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Feedforward Neural Networks, Back-propagation, and Stochastic Gradient Descent

In this lecture, you will be able to

- Write down **recursive relations** with **back-propagation** algorithm to compute the gradient of the loss function with respect to the weight parameters.
- Use the **stochastic descent algorithm** to train a feedforward neural network.
- Understand that it is not guaranteed to reach global (only local) optimum with SGD to minimize the loss.
- Recognize when a network has **overcapacity**.

Discussion

Topic: Unit 3. Neural networks (2.5 weeks):Lecture 9. Feedforward Neural Networks, Back Propagation, and Stochastic Gradient Descent (SGD) / 1. Objectives

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