Deep Learning

Theoretical Exercises – Week 8 – Chapter 7

Exercises on the book "Deep Learning" written by Ian Goodfellow,
Yoshua Bengio, and Aaron Courville.
Exercises and solutions by T. Méndez and G. Schuster

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1 Exercises on Regularization for Deep Learning

1. What is the goal of regularization?

2. Describe the following regularization methods in your own words, by explaining the idea behind the method and describing, how it acts as a regularizer.

    (a) Weight decay

    (b) Dataset Augmentation

    (c) Noise Robustness