1 Deep Learning Theory

The following section covers the most important background theory for the experiments in Section **??**. This includes an introduction to various types of neural networks, as well as an introduction to the optimization of such networks.

1.1 Feedforward Neural Networks

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1.2 Convolutional Neural Networks

1.3 Recurrent Neural Networks

1.3.1 Long Short-Term Memory Unit

1.3.2 Gated Recurrent Unit

1.4 Transformer

1.5 Training a Neural Network