

Practice exercises 11

You will get familiar with Autoencoders and use them for the task of anomaly detection. You will also familiarise yourself with Variational Autoencoders for image generation. Detailed instructions and explanations are provided in the accompanying Jupyter notebook and the additional resource files.

11.1 Implement and train a Convolutional Autoencoder that reconstructs an input image.

11.2 Use the trained Convolutional Autoencoder for anomaly detection.

11.3 Implement and train a Convolutional Variational Autoencoder

11.4 Use the trained Convolutional Variational Autoencoder to generate images.