

Exercise Session 2

Self-supervised Learning: Contrastive Models and Beyond

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Overview

Task 1. Self-Supervised Learning in the Early 2020s: Methods and Insights 1

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We have prepared a notebook in which you will implement, study, and compare the following three self-supervised learning frameworks:

1. **SimCLR** by Chen et al. (2020)
2. **BYOL – Bootstrap Your Own Latent** by Grill et al. (2020)
3. **Barlow Twins** by Zbontar et al. (2021)

Please download the notebook from Moodle and follow the provided instructions. The first framework, SimCLR, you have already seen in Exercise Session 1, Task 3. You are welcome to reuse your implementation and your model weights.

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