**Objective**  
Learn bidirectional style transfer **without paired images**, preserving structure while changing texture/style.

**Technologies**  
PyTorch (nn.Module), ResNet‑style generators (residual blocks, reflection padding, instance norm), 70×70 PatchGAN discriminators, LSGAN (MSE) adversarial loss, cycle & identity losses; Adam optimizers.

**Role / Contributions**

* Implemented ResNet generators and PatchGAN discriminators; configured LSGAN objective, cycle/identity losses, and training loop.
* Ran qualitative/quantitative checks (cycle reconstruction, discriminator realism maps) and documented results.
* Explained concepts to non‑technical audiences with before/after visuals.

**Outcomes / Results**

* Produced convincing **horse→zebra / zebra→horse** translations that retain pose/background; demonstrated DL proficiency and clear communication.