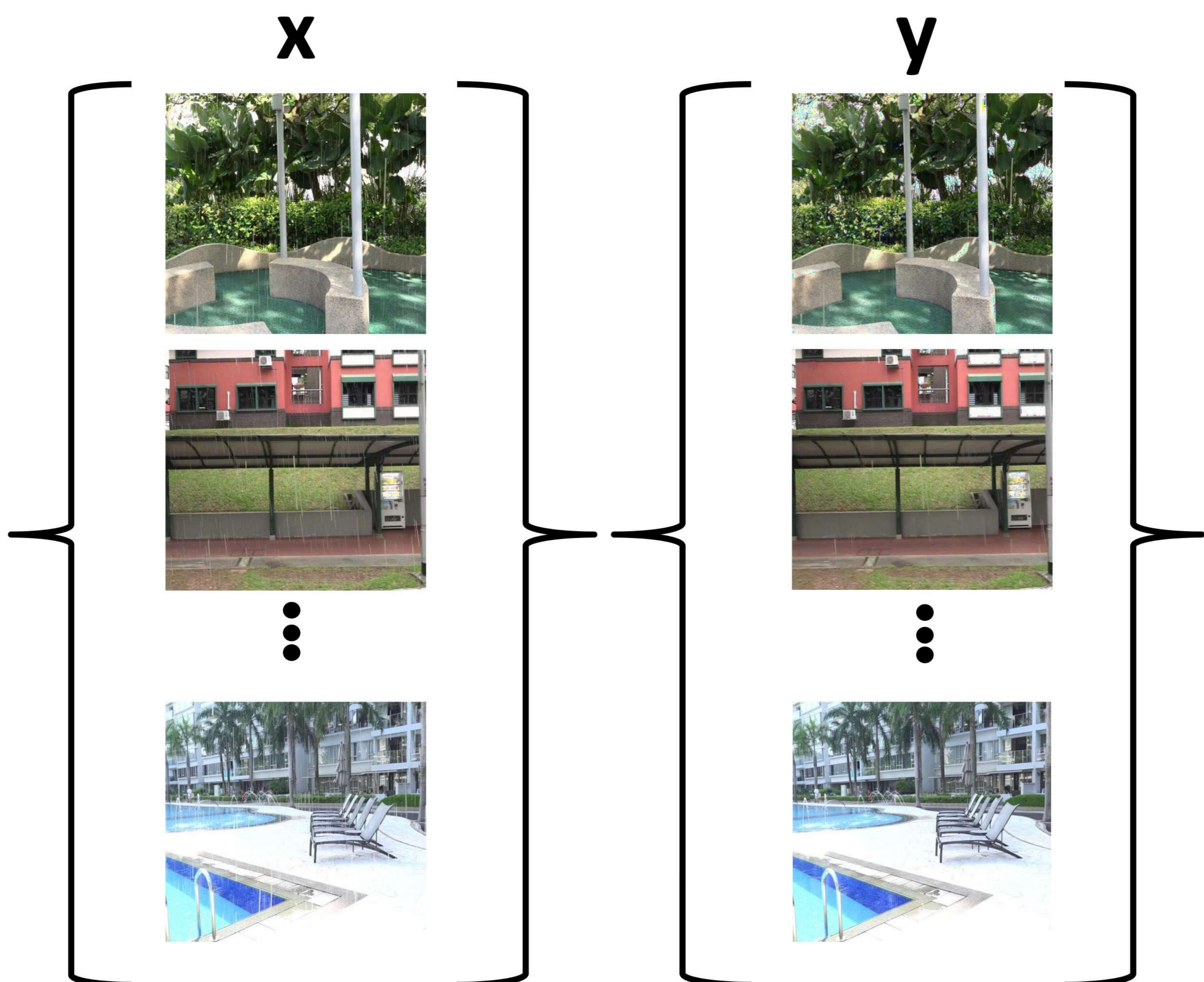


Rain Removal Using Cycle-Consistency adversarial Network

Our Aim:

Removing raindrops from video frames



Unpaired data would be used to learn the mapping of Rain images from Domain X to Rain-free image from Domain Y

The solution uses a Cycle-Consistency adversarial network to tackle the rain removal problem. On top of the usual Adversarial Loss required to optimize both the Generator and Discriminator, cycle-consistency constraints are added. This cycle-consistency constraints ensures that when a rain degraded image is transformed into a rain-free image, and from a rain-free image back to a rain degraded image we should get the same image.